

## BIBLIOGRAFÍA

- Addink E.J. y Beintema J. (1961)** “Polymorphism of crystalline polypropylene”. *Polymer*, 2, 185-193.
- Aglietti E.F y Porto Lopez J.M. (1992)** “Physicochemical and thermal properties of mechanochemically activated talc”. *Material Research Bulletin*, 27, 1205-1216.
- Aglietti E.F. (1994)** “The effect of dry grinding on the structure of talc”. *Applied Clay Science*, 9, 139-147.
- Ajji, A. (2008)** SPE-International Polyolefins Conference-*FLEXPACKCON*, 2, 1048-1085.
- Alger M.S. (1989)** “Polymer Science Dictionary”. Elsevier Science Publishers Ltd, New York.
- Alonso M. (1994)** “Estudio del uso de cargas minerales de origen Puebla de Lillo (León) en el compuesto polipropileno-talco”. *Tesis doctoral*, Universidad de Valladolid.
- Alonso M., González A., de Saja J.A., Requejo A. (1993)** “On the morphology of compression moulded isotactic polypropylene filled with talc”. *Plast. Rubb. Comp. Proc. Appl.*, 20, 165-170.
- Alonso M., Velasco J.I., de Saja J.A. (1997)** “Constrained crystallization and activity of filler in surface modified talc polypropylene composites”. *European Polymer Journal*, 33, 255-262.
- Al-Wakeeel M.I. (1996)** “Geology and beneficiation of some Egyptian talc-carbonate rocks”. *Ph.D. Thesis*, Ain Shams University, Egypt, 313-365.
- Arai Y. (1996)** “Chemistry of powder production”. Chapman & Hill, Londres.
- Arroyo Ramos M., Sanchez Berna M., Vigo Matheu J.P. (1991)** “Effect of talc surface treatment on the mechanical properties of composites based on PP/LDPE blend matrices”. *Polymer Engineering and Science*, 31, 245-252.
- Arroyo-Ramos M. y Lopez-Manchado M.A. (1995)** “Impact behaviour of modified talc filled PP/LDPE blends”. *J. Polym. Eng.*, 14, 237-252.
- Avrami M. (1939)** “Kinetics of phase change. I. General Theory”. *J. Chem. Phys.*, 7, 1103-1112.
- Bajaj P., Jha N., Maurya P., Misra A. (1987)** “Flame retardation of polypropylene - effect of organoantimony compounds on the structural and mechanical-properties”. *Journal of Applied Polymer Science*, 34, 1785-1801.

- Balek V., Šubrt J., Pérez-Maqueda L.A., Beneš M., Bountseva I.M., Beckman I.N., Pérez-Rodríguez J.L. (2008)** “Thermal behavior of ground talc mineral”. *Journal of Mining and Metallurgy*, 44, 7-17.
- Barrer R.M. (1968)** En “Diffusion in Polymers”. Crank J. y Park G.S., Eds. Academic Press, Londres.
- Bartosiewicz L. y Kelly C.J. (1987)** “Microstructural analysis of homo and copolymer extrusions verified with complimentary techniques”. *Advances in Polymer Technology*, 7, 21–33.
- Bash T.F. y Karian H.G. (1999)** En “Handbook of Polypropylene and Polypropylene Composites”. Karian H.G., Ed. Marcel Dekker, New York.
- Bigg D.M. (1987)** “Mechanical properties of particulate filled polymers”. *Polym. Compos.*, 8, 115-122.
- Bjerg E.A., Villar L.M., Donnari E.I. (1999)** “Distrito cuprífero Salamanca, Complejos Novillo Muerto y Los Gateados, Mendoza”. En: “Recursos Minerales de la República Argentina”. E.O. Zappettini (Ed.), Instituto de Geología y Recursos Minerales SEGEMAR, *Anales 35(1)*, 167-172.
- Boluk M. y Schreiber H. (1986)** “Interfacial interactions and the properties of filled polymers: I. Dynamic mechanical responses”. *Polym. Compos.*, 7, 295-301.
- Boulos T.R. (2004)** “Transforming upgrading of talc for different industrial application”. *Final Report submitted to the Egyptian Academy for Scientific Research and Technology*, 1–54.
- Bowen N.L. y Tuttle O.F. (1949)** “The system MgO-SiO<sub>2</sub>-H<sub>2</sub>O”. *Bull. Geol. Soc. Amer.*, 60, 439-460.
- Bragg L. y Claringbull G.F. (1965)** “Crystal Structures of Minerals”. G. Bell and Sons, Ltd.: Londres.
- Caminos R. (1965)** “Geología de la vertiente oriental del Cordón del Plata, Cordillera Frontal de Mendoza”. *Revista de la Asociación Geológica Argentina*, 20 (3), 351-392.
- Candau F. (1992)** “Polymerization in Organized Media”. Paleos, C., Ed.; Gordon and Breach: Reading, PA, 215.
- Chander S., Wie J.M., Fuerstenay D.W. (1975)** En: “Advances in Interfacial Phenomena”, Ed: P. Somasundaran, AIChE Series N° 150, New York, 183-188.
- Charnay C., Lagerge S., Partyka S. (2001)** “Assesment of the surface heterogeinity of talc materials”. *Journal of Colloid and interfase Science*, 233, 250-258.

- Chatterjee P., Sen Gupta S.P., Suchitra Sen (2001)** “Particle fracture and plastic deformation in vanadium pentoxide powders induced by high energy vibrational ball-mill”. *Bull. Mater. Sci.*, 24, 173-180.
- Chen Z., Finet M.C., Lidell K., Thompson O.P., White J.R. (1992)** “Crystal orientation distributions in injection-molded polypropylene compounds”. *J. Appl. Polym. Sci.*, 46 (8), 1429-1437.
- Cho H., Lee H., Lee Y. (2006)** “Some breakage characteristics of ultra-fine wet grinding with a centrifugal mill”. *International Journal of Mineral Processing*, 78, 250-261.
- Christidis G.E., Makri P., Perdikatsis V. (2004)** “Influence of grinding on the structure and colour properties of talc, bentonite and calcite white fillers”. *Clay Minerals*, 39, 163-175.
- Ciullo P.A. (1996)** En: “Industrial Minerals and Their Uses-A Handbook and Formulary”, Westwood, Noyes Publications.
- Clark R. (2003)** Proc. Functional Fillers for Plastics 2003, Intertech Corp., Atlanta, GA, Oct.
- Clark R. y Steen W. (2003)** Chapter 8 en “Handbook of Polypropylene and Polypropylene Composites”. Ed.: Karian, H.G., Marcel Dekker Inc., New York, 281-309.
- Cordera M. (1998)** Proc. Functional Fillers Plastics and Fibers for Plastics 98, Intertech Corp. 5<sup>th</sup> International Conference, Beijing, P.R. China.
- da Silva A.L.N, Rocha M.C.G., Moraes M.A.R., Valente C.A.R., Coutinho F.M.B. (2002)** “Mechanical and rheological properties of composites based on polyolefin and mineral additives”. *Polymer Testing*, 21, 57-60.
- Davis N.E., Newman J., Wheelock P.B., Kronenberg K. (2010)** “Grain growth kinetics of dolomite, magnesite and calcite”. *Physics and chemistry of minerals*. DOI.10.1007/s00269-010-0389-9.
- Daw J.D., Nicholson P.S., Embury J.D. (1972)** “Inhomogeneous dehydroxylation of talc”. *J. Amer. Ceram. Soc.*, 55, 149-151.
- de Parseval P., Moine B., Fortuné J.P., Ferret J. (1993)** “Fluid mineral interactions at the origin of the Trimouns talc and chlorite deposit (Pyrénées, France)”. En *Current Research in Geology Applied to Ore Deposits* (P. Fenoll Hach-Ali, J. Torres-Ruiz y F. Gervilla, Editores), Universidad de Granada, España.
- Denac M., Musil V., Makarovié M. (1998)** “Study of mechanical properties and morphology of polypropylene and talc composites”. *Metals Alloys Technologies*, 32 (1-2), 69-72.

- Denac M., Musil V., Smit I., Ranogajec F. (2003)** “Effect of talc and gamma irradiation on mechanical properties and morphology of isotactic polypropylene/talc composites”. *Polymer degradation and stability*, 82, 263-270.
- Deutsch D. y Radosta J. (1999)** Proc. Polyolefins XI, The SPE International Conference on Polyolefins, Houston, Texas, 657-677.
- Diez-Gutierrez S., Rodriguez-Perez M.A., de Saja J.A., Velasco J.I. (1999)** “Dynamic mechanical analysis of injection-moulded discs of polypropylene and untreated and silane-treated talc-filled polypropylene composites”. *Polymer*, 40, 5345-5353.
- Dirección de Minería de San Juan (1999)** <http://www.mineria.sanjuan.gov.ar>.
- Farmer V.C. (1958)** “The infrared spectra of talc, saponite and hectorite”. *Miner. Mag.*, 31(1), 829-845.
- Farmer V.C. (1974)** “The layer silicates”. En Farmer V.C. (Ed.) “The infrared spectra of minerals”. Mineralogical Society, London, 331-363.
- Farmer V.C. y Aldrichs J.L. (1968)** “Characterization of clay minerals by infrared spectroscopy”. *Trans. 9<sup>th</sup> Int. Congr. Soil. Sci.*, 3, 101-110.
- Farmer V.C. y Russell J.D. (1967)** “Infrared absorption spectrometry in clay studies”. *Clays Clay Minerals*, 15, 121-142.
- Feng D.W. y Aldrich C. (2004)** “Effect of ultrasonication on the flotation of talc”. *Industrial and Engineering Chemistry Research*, 43, 4422-4427.
- Fernando P. (1988)** “Fracture toughness of filled polypropylene copolymer systems”. *Polymer Engineering and Science*, 28, 806-814.
- Ferrage E., Martin F., Boudet A., Petit S., Fourty G., Jouffret F., Micoud P., de Parseval P., Salvi S., Bourgerette C., Ferret J., Saint-Gerard Y., Buratto S., Fortune J.P. (2002)** “Talc as a nucleating agent of polypropylene: morphology induced by lamellar particles addition and interface mineral-matrix modelization”. *Journal of Materials Science*, 37, 1561-1573.
- Fiedler B., Gojny F.H., Wichmann M.H., Nolte M.C., Schulte K. (2006)** “Fundamental aspects of nano-reinforced composites”. *Composites Science and Technology*, 66, 3115-3125.
- Fillon B., Thierry A., Lotz B., Wittman J. (1994)** “Efficiency scale for polymer nucleating agents”. *J. Therm. Anal.*, 42, 721-731.
- Fisa B. (1990)** “Injection molding of thermoplastic composites”. En “Composite materials technology”. Eds: Mallick P.K. y Newman S., Hanser Publishers, Munich, Vienna, New York.

- Folkes M.J. y Hardwick S.T. (1987)** “Direct study of the structure and properties of transcrystalline layers”. *J. Mat. Sci. Lett.*, 6, 656-658.
- Folkes M.J. y Wong W.K. (1987)** “Determination of interfacial shear strength in fibre-reinforced thermoplastic composites”. *Polymer*, 28, 1309-1314.
- Fortuné J.P., Gavoille B., Thiebault J. (1980)** “Le gisement de talc de Trimouns pres Luzenac (Ariege)”. 26 th International Geological Conference, Paris, France, 10.
- Fraile J.M., García J.I., Mayoral J.A., Vispe E. (2004)** “Comparison of hydrophilic and hydrophobic silicas as supports for titanium catalysts”. *Appl. Catal. A*, 276, 113–122.
- Frihi D., Masenelli-Varlot K.K., Vigier G., Satha H. (2009)** “Mixed percolating network and mechanical properties of polypropylene/talc composites”. *Journal of Applied Polymer Science*, 114, 3097-3105.
- Fuerstenau M.C., López Valdiviezo A., Fuerstenau D.W. (1988)** “Role of hydrolyzed cations in the natural hydrophobicity of talc”. *Int. J. of Mineral Proc.*, 23, 161-170.
- Fujiyama M. (1992)** “Crystal orientation in injection moldings of flaky filler-filled polypropylenes”. *International Polymer Processing*, 8, 84-95.
- Fujiyama M. (1998)** “Structure and properties of injection moldings of beta-crystal nucleator-added PP - Part 5, Co-addition of beta- and alpha-crystal nucleators” *Intern. Polym. Processing XIII*, 406-410.
- Fujiyama M. y Wakino T. (1991a)** “Crystal orientation in injection molding of talc-filled polypropylene”. *J. Appl. Polym. Sci.*, 42 (1), 9-20.
- Fujiyama M. y Wakino T. (1991b)** “Structures and properties of injection moldings of crystallization nucleator-added polypropylenes.I. Structure-property relationships”. *J. Appl. Pol. Sci.*, 42, 2739-2747.
- Garton A., Kim S., Wiles D. (1982)** “Modification of the interface morphology in mica-reinforced polypropylene”. *Journal of Polymer Science, Polymer Letters*, 20, 273-278.
- Gedde U.W. (1985)** “Polymer Chemistry”, Chapman & Hall, Londrés.
- Gill T.S. y Xanthos M. (1996)** “Effects of filler on permeability and mechanical properties of HDPE blown films”. *J. Vinyl Addit. Technol.*, 2(3), 248-252.
- Glasson D.R. (1981)** “Vacuum balance studies of milled material and mechanochemical reactions”. *Thermochim. Acta*, 51, 45-52.
- Gold G. y Campbell J.A. (1964)** “Effects of selected U.S.P. talcs on acetylsalicylic acid stability in tablets”. *J. Pharm. Sci.*, 53, 52-54.

- Gonzalez A., de Saja J.A., Alonso J. (1995)** “Morphology and tensile properties of compression-moulded talc filled polypropylene”. *Mater. Plastics, Rubber and Comp. Proc. and Appl.*, 24, 131.
- Grauby O., Petit S., Enguehard F., Martin F., Decarreau A. (1991)** “XRD, EXAFS and FTIR octahedral cation distribution in synthetic Ni-Co kerolites”. Proc. 7<sup>th</sup> Euroclay Conf. (Dresden), 2, 447-452.
- Gregg S.J. (1968)** “Surface chemical study of comminuted and compacted solids”. *Chemistry and Industry*, 11, 611-617.
- Gregori D.A. (2000)** “Permo-Triassic volcanic-arc granites in the Mendoza Frontal Cordillera, Argentina”. XVII Simposio sobre la Geología de Latinoamérica, pp. 47, Stuttgart.
- Gregori D.A., Fernandez-Turiel J.L., Lopez-Soler A., Petford N. (1996)** “Geochemistry of Upper-Palaeozoic-Lower Triassic granitoids of Central Frontal Cordillera, Argentina”. *Journal of South American Earth Sciences*, 9 (1-2), 141-151.
- Grigorieva T.F., Vorsina I.A., Barinova A.P., Lyakhov N.Z. (2004)** “Mechanocomposites as new materials for solid-phase cosmetics”. *Chemistry for Sustainable Development*, 12, 139-146.
- Guerrica-Echevarria G., Eguiazabal J.I., Nazabal J. (1998)** “Influence of molding conditions and talc content on the properties of polypropylene composites”. *Eur. Polym. J.*, 34, 1213-1219.
- Harris T. (2003)** Proc. Functional Fillers for Plastics 2003, Intertech Corp. Atlanta, GA.
- Hay J.N. (1971)** “Application of the modified Avrami equations to polymer crystallization kinetics”. *Br. Polym. J.*, 3, 74-82.
- Hay J.N. y Prezekop Z.J. (1979)** “Extensions of the Avrami equation to various polymer crystallization models”. *J. Polym. Sci, Polym. Phys. Ed.*, 17, 951-959.
- Hay J.N., Fitzgerald P.A., Wiles M. (1976)** “Use of differential scanning calorimetry to study polymer crystallization kinetics”. *Polymer*, 17, 1015-1018.
- Heller-Kallai L., Yariv S., Friedman I. (1986)** “Thermal analysis of the interaction between stearic acid and pyrophyllite or talc. IR and DTA studies”. *Journal of Thermal Analysis*, 31, 95-106.
- Ho Suh C. y White J.L. (1996)** “Basic studies of blow molding of talc-thermoplastic compounds”. *Polymer Engineering and Science*, 36(11), 1521-1530.

- Holland H.J. y Murtagh M.J. (2000)** “An XRD morphology index for talcs: the effect of particle size and morphology on the specific surface area”. *International Centre for Diffraction Data, Advances in X-ray Analysis*, 42, 421-428.
- Houot R., Joussemet R., Yang S., Baeza R. (1995)** “Beneficiation of talc products, processing of hydrophobic minerals and fine coal”. Proceedings of the 1st UBC-McGill Bi-Annual international symposium of fundamentals in Mineral Processing, Vancouver, BC, Canada, 373–377.
- Hull D. y Cline T.W. (1996)** “An introduction to composite materials”. 2<sup>nd</sup> Edition. Cambridge University Press, Cambridge, United Kingdom.
- Huson M.G. y McGill W.J. (1984)** “Transcrystallinity in polypropylene”. *J. Polym. Sci. Polym. Chem.*, 22, 3571.
- Ishii M., Shimanouchi T., Nakahira M. (1967)** “Far infrared absorption spectra of layer silicates”. *Inorg. Chim. Acta*, 1, 378-392.
- Ishimori T. y Senna M. (1995)** “Effects of titania sol on the mechanical delamination of talc”. *Ind. Eng. Chem. Res.*, 34, 895-897.
- Ishimori T., Yamashita M., Senna M. (1994)** “Determination of geometrical properties of mechanically delaminated ultrathin talc platelets”. *Part. Part. Syst. Charact.*, 11, 398-402.
- Jamil N.H. y Palaniandy S. (2010)** “Acid medium sonication: A method for the preparation of low density talc nano-sheets”. *Powder Technology*, 200, 87-90.
- Jaramillo I., Mesa Restrepo L., Alfonso J., Tobón J. (2005)** “Estudio preliminar de blanqueamiento del talco de la Unión (Antioquia)”. *Dyna*, 72, 1-11.
- Kalfus J. y Jancar J. (2007)** “Elastic response of nanocomposite poly(vinylacetate)-hydroxyapatite with varying particle shape”. *Polymer Composites*, 28(3), 365-371.
- Kano J. y Saito F. (1998)** “Correlation of powder characteristics of talc during Planetary Ball Milling with the impact energy of the balls simulated by the Particle Element Method”. *Powder Technology*, 98, 166-170.
- Katz H.S. y Milewski J.V. (1987)** “Handbook of Fillers for Plastics”. Van Nostrand Reinhold, New York.
- Kerch G.M. e Irgen L.A. (1990)** “Non-isothermal crystallization kinetics of filled blends of polypropylene and low density polyethylene”. *Journal of Thermal Analysis and Calorimetry*, 36, 129-135.
- Khunova V., Smatko V., Hudec I., Beniska J. (1988)** “Influence of filler on the polypropylene structure”. *Prog. Colloid Poly. Sci.*, 78, 188-191.

- Kostadinoff J., Bjerg E., Gregori D., Richarte D., Robles J.A., Raniolo A. (2004)** “Geofísica del cuerpo ultramáfico de la mina Salamanca, sierra de Guarguaraz, Cordillera Frontal, provincia de Mendoza”. Asociación Geológica Argentina, *Revista de la Asociación Geológica Argentina*, 59, 1, 113-120.
- Kowalewski T. y Galeski A. (1986)** “Influence of chalk and its surface treatment on crystallization of filled polypropylene”. *Journal of Applied Polymer Science*, 32, 2919-2934.
- Kursun H. y Ulusoy U. (2006)** “Influence of shape characteristics of talc mineral on the column flotation behavior”. *International Journal of Mineral Processing*, 78, 262-268.
- Li Q., Zheng W., Qi Z. (1992)** *Sci. Sinica B*, 3, 236.
- Li Z., Giese R.F., van Oss C.J., Yvon J., Cases J. (1993)** “The surface thermodynamic properties of talc treated with octadecylamine”. *Journal of Colloid and Interface Science*, 156, 279-284.
- Lin F.C. y Cemency C.V. (1981)** “The dissolution kinetics of brucite, antigorite, talc and phlogopite at room temperature and pressure”. *Am. Min.*, 66, 801-806.
- Liu Z. y Gilbert M. (1996)** “Structure and properties of talc filled polypropylene. Effect of phosphate coating”. *Journal of Applied Polymer Science*, 59, 1087-1098.
- Lu S., Zhu X., Qi Z., Xu H. (1995)** “The role of creep damage in glass bead filled high density polyethylene”. *J. Mater. Sci. Lett.*, 14, 1458.
- Luce R.W., Bartlett W.B., Parks G.A. (1972)** “Dissolution kinetics of magnesium silicates”. *Geochim. Cosmochim. Acta*, 36, 35-50.
- LUZENAC GROUP (2010)** www.luzenac.com (Noviembre 2010)
- Mahadi M.I. y Palaniandy S. (2010)** “Mechanochemical effect of dolomitic talc during fine grinding process in mortar grinder”. *International Journal of Mineral Processing*, 94, 172-179.
- Maier C. y Calafut T. (1998)** “Polypropylene. The definitive user’s guide and databook”. Plastic design library. United States of America.
- Maiti S.N. y Mahapatro P.K. (1991)** “Mechanical properties of i-PP/CaCO<sub>3</sub> composites”. *J. Appl. Polym. Sci.*, 42, 3101-3110.
- Maiti S.N. y Mahapatro P.K. (1990)** “Crystallization of i-PP/CaCO<sub>3</sub> composites and its correlation with tensile properties” *Int. J. Polym. Mater.*, 14, 205-222.
- Maiti S.N. y Sharma K.K. (1992)** “Studies on polypropylene composites filled with talc particles.1. Mechanical-properties”. *Journal of Materials Science*, 27, 4605-4613.



- Majer J. (1960)** “The effect of the melting conditions on the crystallinity of polypropylene”. *Kunststoffe*, 50, 565-567.
- Malandrini H., Sarraf R., Faucompre B., Partyka S., Douillard J.M. (1997)** “Characterization of quartz particle surface by immersion calorimetry”. *Langmuir*, 13, 1337-1341.
- Malhammar G. (1990)** “Determination of some surface properties of talc”. *Colloids and Surfaces*, 44, 61-69.
- Mallick P.K. (1993)** “Fiber-Reinforced Composites”. Marcel Decker Inc., New York.
- Manson J.A. y Sperling L.H. (1976)** “Polymer blends and Composites” (Plenum, New York), Cap 12.
- Martin F., Micoud P., Delmotte L., Maréchal C., Le Dred R., de Parseval P., Mari A., Fortuné J.P., Salvi S., Béziat D., Grauby O., Ferret J. (1999)** “The structural formula of talc from the Trimouns deposit, Pyrénées, France”. *Can. Mineral.*, 37(4), 975-984.
- Mascia L. (1982)** “Thermoplastics: Materials Engineering”. Applied Science Publishers: Londres.
- McCarthy E.F., Genco N.A., Reade E.H. (2006)** “Talc”. En “Industrial minerals and rocks. Commodities, markets and uses”. 7<sup>th</sup> Edn, Eds. Kogel J.E., Trivedi N.C., Barker J.M., Krukowski S.T. Society for Mining, metallurgy and Exploration Inc. United States of America.
- Menczel J. y Varga J. (1983)** “Influence of nucleating agents on crystallization of PP. 1. Talc as a nucleating agent”. *Journal of Thermal Analysis*, 28, 161-174.
- Michler G.H. y Tovmasjan J.M. (1988)** “The essential work of fracture of polyamide 6 filled with TiO<sub>2</sub> nanoparticles”. *Plaste und Kautschuk*, 35, 73-77.
- Mitsubishi K., Kodama S., Kawasaki H. (1985)** “Mechanical properties of polypropylene filled with calcium carbonate”. *Polymer Engineering and Science*, 25, 1069-1073.
- Moine B., Fortuné J.P., Moreau P., Viguiet F. (1989)** “Comparative mineralogy, geochemistry and conditions of formation of two metasomatic talc and chlorite deposits: Trimouns (Pyrenees, France) and Rabenwald (Eastern Alps, Austria)”. *Economic geology*, 84, 1398-1416.
- Morton-Jones D.H. (1989)** “Polymer Processing”. Chapman and Hall Ltd., London, New York.
- Nagy T., Vámos G., Tóth A., et al. (1984)**. *Muanyag és Gumi*, 21, 48-52.

- Naiki M., Fukui Y., Matsumura T., Nomura T., Matsuda M. (2001)** “The effect of talc on the crystallization of isotactic polypropylene”. *Journal of Applied Polymer Science*, 79, 1693–1703.
- Nakatani H., Shibata H., Miyazaki K., Yonezawa T., Takeda H., Azuma Y., Watanabe S. (2010)** “Studies on heterogeneous degradation of polypropylene/talc composite: Effect of iron impurity on the degradation behavior”. *Journal of Applied Polymer Science*, 115(1), 167–173.
- Nicolais L. y Narkis M. (1971)** “Stress-strain behavior of styrene-acrylonitrile/glass bead composites in the glassy region”. *Polym. Eng. Sci.*, 11, 194-199.
- Nicolais L. y Nicodemo L. (1974)** “Effect of particles shape on tensile properties of glassy thermoplastic composites”. *Int. J. Polym. Mater.*, 3, 229.
- Nielsen L.E. (1966)** “Simple theory of stress-strain properties of filled polymers”. *J. Appl. Polymer Sci.*, 10, 97-103.
- Nielsen L.E. y Landel R.F. (1994)** “Mechanical properties of polymers and composites”. Marcel Dekker Inc., New York.
- Ohlberg S.M y Strickler D.W. (1962)** “Determination of percent crystallinity of partly devitrified glass by X-ray diffraction”. *J. Am. Ceram. Soc.*, 45, 170-171.
- Osborns K.R. y Jenkins W.A. (1992)** “Plastic films. Technology and Packaging applications”. Technomic Pub. Co. Inc., Lancaster, Estados Unidos.
- Osswald T. (1998)** “Polymer Processing Fundamentals”. Hanser, Munich.
- Papirer E., Balard H., Jagiello J., Baeza R., Clauss F. (1992)** “Modification and surface characterization of talc. Chemically Modified Surfaces”, Ed.: Mottola H.A. y Steinmetz J.R., Elsevier, 351-368.
- Pérez-Maqueda L.A., Duran A., Pérez-Rodríguez J.L. (2005)** “Preparation of submicron talc particles by sonication”. *Applied Clay Science*, 28, 245-255.
- Pérez-Rodríguez J.L, Pascual J., Franco F., Jiménez de Haro M.C., Duran A., Ramírez del Valle V., Pérez-Maqueda L.A. (2006)** “The influence of ultrasound on the thermal behaviour of clay minerals”. *Journal of the European Ceramic Society*, 26, 747–753.
- Petermann J. (1995)** “Epitaxial growth on and with polypropylene”. En "Polypropylene: Structure, Blends and Composites" Vol. 1, (ed. J. Karger-Kocsis) Chapman, Hall, London.
- Petit S., Martin F., Wiewiora A., de Parseval P., Decarreau A. (2004)** “Crystal chemistry of talc: a near infrared (NIR) spectroscopy study”. *American Mineralogist*, 89, 319-326.

- Piga L. y Maruzzo G. (1992)** “Preconcentration of an Italian talc by magnetic separation and attrition”. *International Journal of Mineral Processing*, Aug., 35(3), 291-297.
- Piniakiewicz R.J., Mc Carty E.F., Genco N.A. (1994)** En: Carr, D.D (Ed.) “Industrials Minerals and Rocks”, 6 th Edition. SME Inc., Littleton, Colorado.
- Pinnavia T. y Beall G. (2001)** “Polymer-clay Nanocomposites”. John Wiley & Sons: Inglaterra.
- Pugh R.J. y Tjus K. (1990)** “Flotation depressant action of poly(oxyethylene) alkyl ethers on talc”. *Colloids Surf.*, 47, 179-184.
- Pukánszky B. (1995)** “Particulate filled polypropylene: structure and properties”. En "Polypropylene: Structure, Blends and Composites", Vol. 3, pp. 1-70 (ed. J. Karger-Kocsis) Chapman & HaH, Londrés.
- Pukánszky B., Belina K., Rockenbauer A., Maurer F.H.J. (1994)** “Effect of nucleation, filler anisotropy and orientation on the properties of PP composites”. *Composites*, 25, 205-214.
- Rabello M.S. y White J.R. (1996)** “Photodegradation of talc-filled polypropylene”. *Polymer Composites*, 17, 691–704.
- Radosta J. (1995)** Proc. Functional Fillers for Plastics 95, Intertech Corp., Houston, Texas.
- Ramos Filho F.G., Melo T.J.A., Rabello M.S., Silva S.M.L. (2005)** “Thermal stability of nanocomposites based on polypropylene and bentonite”. *Polym. Degrad. Stab.*, 89, 383–392
- Rayner J.H. y Brown G. (1973)** “The crystal structure of talc”. *Clays and Clay Minerals*, 13, 73-84.
- Riley A.M., Paynter C.D., McGenity P.M., Adams J.M. (1990)** “Factors affecting the impact properties of mineral filled polypropylene”. *Plast. Rubb. Proc. Appl.*, 14, 85-93.
- Ross M. (1984)** “A definition for talc, definition for Asbestos and other health-related silicates”, ASTM STP 834, Ed. Benjamin Levadie, American Society for Testing and Materials, Philadelphia, 193-197.
- Ruckenstein E. y Park J. (1992)** “Stable concentrated emulsions as precursors for hydrophilic-hydrophobic polymer composites”. *Polymer*, 33, 405-417.
- Rumpf H. y Schubert H. (1978)** “Adhesion forces in agglomeration processes”. En: Onoda G., Hench L. (Ed.) “Ceramic Processing before Firing”. Wiley, New York.
- Rybnikar F. (1989)** “Orientation in composite of polypropylene and talc”. *J. Appl. Polym. Sci.*, 38, 1479-1490.

- Rybnikar F. (1991a)** “Interactions in the system isotactic polypropylene-calcite”. *J. Appl. Polym. Sci.*, 42, 2727-2737.
- Rybnikar F. (1991b)** “Orientational memory in filled isotactic polypropylene”. *Eur. Polym. J.*, 27, 549-551.
- Saldi G., Kohler S., Marty N., Oelkers E. (2007)** “Dissolution rates of talc as a function of solution composition, pH and temperature”. *Geochim. Cosmochim. Acta.*, 71, 3446-3457.
- Sanchez-Soto P.J., Wiewióra A., Avilés M.A., Justo A., Pérez-Maqueda L.A., Pérez-Rodríguez J.L., Bylina P. (1997)** “Talc from Puebla de Lillo, Spain. II. Effect of dry grinding on particle size and shape”. *Applied Clay Science*, 12, 297-312.
- Schirmer S., Ratio J., Froio D., Thellen C., Lucciarini J. (2008)** Technical Papers, Regional Technical Conference Society of Plastics Engineers, 3, 1365-1369.
- Schlumpf H. (1983)** *Kunststoffe*, 73, 511-515.
- Schlumpf H. (1990)** “Physico-chemical aspects of fillers in polypropylene”. *Chimia*, 44, 359-360.
- Segemar, 2000.** Informe “demanda y oferta de talco” <http://www.segemar.gov.ar>
- Song J., Prox M., Weber A., Ehrenstein G.W. (1995)** “Self-reinforcement of polypropylene”. En “Polypropylene: Structure, Blends and Composites”, Vol. 3, pp. 1-70 (ed. J. Karger-Kocsis) Chapman & HaH, Londres.
- Sharples A. (1962)** “The formation of nuclei in crystallizing polymers”. *Polymer*, 3, 250-252.
- Steen W. (1999)** “Handbook of Polypropylene and Polypropylene Composites”. Ed.: Karian H., Wiley, Estados Unidos.
- Stokes A.R y Wilson A.J.C. (1944)** “The diffraction of X-rays by distorted crystal aggregates-I. *Proc. Phys. Soc. Lond.*, 56, 174-181.
- Sugiyama K., James P.F., Saito F., Waseda Y. (1991)** “X-ray diffraction study of ground talc  $Mg_3Si_4O_{10}(OH)_2$ ”. *Journal of Materials Science*, 26, 5297-5300.
- Taranco J., Laguna O., Artiaga R.P., Collar E.P., García Martínez J.M. (1993)** “Modificación superficial de talco con n-butilamina para su utilización como refuerzo de PP”. *Rev. Plást. Mod.*, 66, 415-424.
- Taranco J., Laguna O., Collar E.P. (1991a)** “Influencia de la modificación superficial del talco, mediante aminación, sobre el módulo elástico de compuestos de PP”. *Rev. Plást. Mod.*, 418, 513-515.

- Taranco J., Laguna O., Collar E.P. (1991b)** “Influencia de la modificación superficial de talco mediante cloración, sobre el módulo elástico de compuestos con PP”. *Rev. Plást. Mod.*, 417, 366-368.
- Taylor L. (2003)** “Smooth operator: talc gets specialized for growth”. *Ind. Miner.*, 24-30.
- Terada K. y Yonemochi E. (2004)** “Physicochemical properties and surface free energy of ground talc”. *Solid State Ionics*, 172, 459-462.
- Tiganis B.E., Shanks R.A., Long Y. (1996)** “Effects of processing on the microstructure, melting behavior and equilibrium melting temperature of polypropylene”. *J. Appl. Polym. Sci.*, 59, 663-671.
- Tjong S.C. y Li R.K.Y. (1997)** “Mechanical properties and impact toughness of talc-filled beta-crystalline phase polypropylene composites”. *J. Vinyl Additive Technol.*, 3, 89-95.
- VANDERBILT GROUP (2010)** [www.rtvanderbilt.com](http://www.rtvanderbilt.com) (Noviembre 2010)
- Varga J. (1989)** “ $\beta$  modification of polypropylene and its two component systems”. *Journal of Thermal Analysis*, 35, 1891-1912.
- Varga J., Menczel J., Solti A. (1981)** “Double crystallization of biaxially oriented polypropylene”. *Journal of Thermal Analysis and Calorimetry*, 20, 23-32.
- Varga J., Schulek-Toth F., Mudra I. (1994)** “Blends of the  $\beta$  modification of polypropylene”. *Macromol Symp*, 78, 229-241.
- Vedder W. (1964)** “Correlations between infrared spectrum and chemical compositions of micas”. *Am. Mineral.*, 49, 736-768.
- Velasco J., Morhain C., Martínez A., Rodríguez-Pérez M., de Saja J. (2001)** “Anisotropy and microstructure heterogeneity of injection-moulded discs of poly(propylene) filled with platy magnesium hydroxide”. *Macromolecular Materials Engineering*, 286, 719-730.
- Velasco J.I., de Saja J.A., Martínez A.B. (1996a)** “Influencia de la funcionalización del talco en la cristalización de compuestos polipropileno-talco”. *Revista de los Plásticos Modernos*, 477, 271-278.
- Velasco J.I., de Saja J.A., Martínez A.B. (1996b)** “Crystallization behavior of polypropylene filled with surface-modified talc”. *Journal of Applied Polymer Science*, 61, 125-132.
- Velasco J.I., Morhain C., Arencón D., Sánchez M., Martínez A.B. (1998)** “Evaluación del refuerzo mecánico del talco en compuestos inyectados de polipropileno”. *Revista de los Plásticos Modernos*, 75, 265-270.

- Vilkovskii S.S. y Naberezhnykh V.P. (1982)** “Kinetic theory of crystallization”. *Physica status solidi (a)*, 72, 333–342.
- Virta R.L. (2004)** “Talc and pyrophyllite”. En: “United States Geological Survey. compiler. Minerals Yearbook: Volume 1 - Metals and Minerals 2004”. United States Department of the Interior.
- Vollenberg P.H.T. y Heikens D. (1986)** “The effects of particle size on the mechanical properties of composites”. En “Composite Interfaces”, (Eds. H. Ishida and J. L. Koenig), Elsevier, New York, 171-175.
- Vorsina I.A., Barinova A.P., Lyakhov N.Z. (2004)** “To the problem of the "capacity" of layered silicates in their mechanochemical reactions with organic acids”. *Chemistry for Sustainable Development*, 12, 303-311.
- Weidenfeller B., Hofer M., Schilling F. (2004)** “Thermal conductivity, thermal diffusivity and specific heat capacity of particle filled polypropylene”. *Composites Part A: Applied Science and Manufacturing*, 35, 423-429.
- Wesolowski M. (1984)** “Thermal decomposition of talc: A review”. *Thermochim. Acta*, 78, 395-421.
- Wunderlich B. (1976)** “Macromolecular Physics. Vol 2. Crystal nucleation, growth, annealing”, Academic Press, New York.
- Wunderlich B. (1990)** “Thermal Analysis”. Academic Press, New York, USA.
- Wypych G. (1993)** “Fillers”. ChemTec Publ., Toronto, Ont., Canada, 43-46.
- Wypych G. (2000)** “Handbook of Fillers”. ChemTec Publ., Toronto, Ont., Canada, 150-153, 663-667.
- Xanthos M. (2005)** “Functional Fillers for Plastics”. Wiley-VCH Verlag GmbH&Co KGaA, Weinheim.
- Xanthos M. y Todd D.B. (1996)** “Plastics processing”. En Kirk-Othmer Encyclopedia of Chemical Technology, 19, 4th edn, John Wiley&Sons, Inc., New York, 290–316.
- Xanthos M., Greci J., Patel S.H., Patel A., Jakob C., Dey S., Dagli S.S. (1995)** “Thermoplastic composites from maleic anhydride modified post-consumer plastics”. *Polym. Compos.*, 16, 204-214.
- Xavier S.F. (1991)** “Development of fine morphology in polypropylene composites”. En “Two-Phase Polymer Systems”. Ed. Utracki, L.A., Hanser Publishers, Munich, 347-370.

- Xavier S.F. y Sharma Y.N. (1984)** “Transcrystallinity and interfacial bondage in polypropylene-mica composites”. *Angewandte Makromolekulare Chemie*, 127, 145-152.
- Xavier S.F. y Sharma Y.N. (1986)** “Structure-property relations in polypropylene mica composites”. *Polym. Compos.*, 7, 42-49.
- Xavier S.F., Schultz J.M., Friedrich K. (1990a)** “Fracture propagation in particulate filled polypropylene composites. Part 1: influence of filler nature”. *J. Mat. Sci.*, 25, 2411-2420.
- Xavier S.F., Schultz J.M., Friedrich K. (1990b)** “Fracture propagation in particulate filled polypropylene composites. Part 2: influence of mica concentration”. *J. Mat. Sci.*, 25, 2421-2427.
- Xu T., Lei H., Xie C. (2002)** “The research on aggregation structure of PP materials under different condition and the influence on mechanical properties”. *Materials and Design*, 23, 709-715.
- Xue G., Dong J., Gu X., Qian Y., Sheng W., Wang G. (1994)** “Surface modification of copper for adhesion promotion by polybenzimidazole”. *J. Adhes. Sci. Technol.*, 8, 971-979.
- Yariv S. (1992)** “Wettability of Clay Minerals”. En: “Modern Approaches to Wettability: Theory and Applications”. Eds: M. E. Schrader, and G. Loeb, Plenum Press, New York, 279-326.
- Yehia A. y Al-Wakeel M.I. (2000)** “Talc separation from talc-carbonate ore to be suitable for different industrial applications”. *Minerals Engineering*, 13 (1), 111-116.
- Yoder H.S. (1952)** “The MgO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-H<sub>2</sub>O system and related metamorphic facies”. *Amer. J. Sci., Bowen Memorial*, Vol. 569.
- Yue C.Y. y Cheung W.L. (1991)** “The morphology, character and strength of the interface in glass fibre polypropylene composites”. *J. Mat. Sci.*, 26, 870-880.
- Zbik M. y Smart R.St.C. (2005)** “Influence of dry grinding on talc and kaolinite morphology: inhibition of nano-bubble formation and improved dispersion”. *Minerals Engineering*, 18, 969-976.
- Zheng W., Qi Z., Shi L. (1992)** *Chin. Sci. Bull.*, 37, 904.
- Zhu X., Choy C., Wu X., Deng X., Qi Z. (1992)** Proceedings of the International Symposium on Polymer Alloys and Composites, Hong Kong.
- Zilhif A.M. y Ragosta G. (1991)** “Mechanical properties of talc-polypropylene composites”. *Mater Lett.*, 11, 368-372.

**Zuchowska D. y Hlavatá D. (1991)** “Some physical properties of polypropylene-phenolic microsphere blends”. *European Polymer Journal*, 27, 355-357.