

2 Basic Types of PP

PP, a semi-crystalline thermoplastic, is made in its homopolymer form by polymerising propylene monomer using stereospecific Ziegler-Natta catalysts. The catalyst system is termed stereospecific because it controls the position of the side (methyl) group in each propylene unit in the polymeric chain. A typical catalyst system may be prepared by combining titanium trichloride with tributyl aluminium or its variants. Most commercial PP is isotactic.

The physical properties and processing characteristics of PP are mainly determined by the molecular weight (average number of propylene units in a chain), the molecular weight distribution (variation in average length of chains) and the type and amount of copolymerising monomer. The selection of the right grade of PP for a specific application involves

- choosing between homopolymer and copolymer,
- choosing a reactor or controlled rheology grade,
- defining the melt flow rate required and the appropriate additive system.

However, with changes in manufacturing technology, operating conditions and catalyst systems, the traditional differences between the properties of homopolymers and copolymers have blurred [4-6]. Hence, an open mind is necessary to select a proper grade for a particular application.

2.1 Homopolymer

Homopolymer PP is made by polymerising propylene in the presence of a stereospecific catalyst. Homopolymers are more rigid and have better resistance to high temperatures than copolymers but their impact strength at temperatures below zero is limited (Section 4.3.2).

Typical applications for homopolymer polypropylene include windshield washer tanks, shrouds for fans and steering columns, housings for domestic appliances such as hair dryers, sterilisers, irons, coffee makers, toasters, etc., extrusion of fibres and filaments for carpet backing, upholstery fabrics, clothing, geotextiles, disposable diapers, medical fabric and automotive interior fabrics.

2.2 Copolymer

The properties of PP depend on the type and amount of comonomer. There are two basic types: random copolymer and heterophasic or block copolymer. The random polymers contain 1.5% to 6% by weight of ethylene or higher alkenes (such as butene-1) in random distribution and in a single chemical phase. The essential difference between a random and a block copolymer is that the block copolymer contains

Practical Guide To Polypropylene

Patricia Noble



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Practical Guide to Polypropylene Devesh Tripathi, 2002 Polypropylene is now the third largest consumed plastic material after polyethylene and polyvinyl chloride This book discusses the advantages and disadvantages of working with polypropylene offering practical comment on the available types of polypropylene its mechanical properties and in service performance and processing Comparisons with other common plastics are also provided which highlight the advantages of this polyolefin

Practical Guide to Polyethylene Cornelia Vasile, Mihaela Pascu, 2005 This practical guide begins with general background to the polyethylene family with price production and market share information It describes the basic types of polyethylene including virgin and filled polyethylene copolymers block and graft polymers and composites and reviews the types of additives used in polyethylene It gives the low down on the properties including amongst others rheological mechanical chemical thermal and electrical properties It goes on to describe the processing issues and conditions for the wide range of techniques used for polyethylene and also considers post processing and assembly issues It offers guidance on product design and development issues including materials selection It is an indispensable resource for everyone working with this material

Handbook of Molded Part Shrinkage and Warpage Jerry Fischer, 2003-12-31 The handbook explains in plain terms why moldings shrink and warp shows how additives and reinforcements change the picture sets out the effect of molding process conditions and tells why you never can have a single correct shrinkage value But that s not all The handbook shows how to alleviate the problem by careful design of the molded part and the mold and by proper material selection It also examines computer aided methods of forecasting shrinkage and warpage And most important of all the handbook gives you the data you need to work with This is the most complete collection of shrinkage data ever made and includes an extensive compilation of hard to find multi point information on how processing part design mold design material and post mold treatment affect the part s final dimensions Manufacturers figures for thousands of grades along with an exhaustive search of magazines journals conference papers books web sites and brochures combine to make this a powerful resource A lot depends on a dimensionally correct molding Quality speed to market profit margins for the molder and toolmaker the efficiency of secondary and assembly operations reputation all these are on the line The Mold Shrinkage and Warpage Handbook is the book for people who have to live with shrinkage and warpage It is the only book for people who have to commit themselves

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