

Ipiranga Petrochem PH 0320 Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

The production of polypropylene (PP) employs Spheripol technology from Montell / Italy. This technology has been acclaimed all over the world and is known as clean technology, because it does not produce catalyst residues (due to its high catalytic yield). Raw materials are supplied by COPESUL. Following pre-treatment, they are sent, with the catalytic system, into two loop reactors and one gas-phase reactor. This plant produces PP homopolymer, random copolymer, heterophase copolymer and terpolymer. The product leaves the reactors in the shape of spherical grains. The grains are sent to the extrusion site, where stabilizers are added to them. They are then turned into pellets by an extruding press. The pelletized material is first sent to mixing and storage silos. Later, this material is sent to the packaging area. Applications: flip top lids furniture household goods spare parts for appliance thick walls parts

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http://www.lookpolymers.com/polymer_ipiranga-Petrochem-PH-0320-Polypropylene.php

Physical Properties	Metric	English	Comments
Melt Flow	2.8 - 3.8 g/10 min @Load 2.16 kg, Temperature 190 Â°C	2.8 - 3.8 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238-00

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785-98
Tensile Strength, Yield	37.0 MPa	5370 psi	ASTM D638-02
Elongation at Yield	8.8 %	8.8 %	ASTM D638-02
Flexural Modulus	1.62 GPa	235 ksi	1% secant; ASTM D790-02
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM D256-03

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Â°C	210 Â°F	ASTM D648-97
Vicat Softening Point	154 Â°C	309 Â°F	ASTM D1525-97

Optical Properties	Metric	English	Comments
Haze	81 % @Thickness 1.60 mm	81 % @Thickness 0.0630 in	ASTM D1003A-00

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