

Ipiranga Petrochem PCC 2314 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: appliances, dishes, household goods, slidesthin walls parts with good impact resistance

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http://www.lookpolymers.com/polymer_ipiranga-Petrochem-PCC-2314-Polypropylene.php

Physical Properties	Metric	English	Comments
Melt Flow	18 - 24 g/10 min @Load 2.16 kg, Temperature 190 Å°C	18 - 24 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238-00

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ASTM D785-98
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638-02
Elongation at Yield	5.4 %	5.4 %	ASTM D638-02
Flexural Modulus	1.29 GPa	187 ksi	1% secant; ASTM D790-02
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256-03
	0.400 J/cm @Temperature -20.0 Å°C	0.749 ft-lb/in @Temperature -4.00 Å°F	ASTM D256-03

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	111 Å°C	232 Å°F	ASTM D648-97
Vicat Softening Point	148 Å°C	298 Å°F	ASTM D1525-97

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