

Total PPH 4042 Polypropylene, Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

ATOFINA Polypropylene PPH 4042 is a nucleated homopolymer. Application ATOFINA Polypropylene PPH 4042 has been developed for extrusion-thermoforming, providing improved rigidity and impact resistance combined with high clarity, reduced cycle times and good antistatic properties. PPH 4042 is suitable for the injection molding of technical and household items. Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-4042-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.525 g/cc	0.0190 lb/in ³	ISO 1183
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ISO 2039-2
Tensile Strength, Yield	35.0 MPa	5080 psi	ISO 527-2
Elongation at Yield	9.0 %	9.0 %	ISO 527-2
Tensile Modulus	1.65 GPa	239 ksi	ISO 527-2
Flexural Modulus	1.55 GPa	225 ksi	ISO 527-2
Izod Impact, Notched (ISO)	5.50 kJ/m ²	2.62 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.650 J/cm ²	3.09 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	120°C per hour; ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	120°C per hour; ISO 75-2
Vicat Softening Point	90.0 °C	194 °F	50N-50°C per hour; ISO 306
	153 °C	307 °F	10N-50°C per hour; ISO 306

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