

Total PPH 4054 Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

Polypropylene PPH 4054 is a homopolymer polypropylene with a Melt Flow index of 3 g/10 min. Polypropylene PPH 4054 has been designed for the production of BOPP film with the tenter frame process. The product combines a good processability at excellent film properties. PPH 4054 is calcium stearate free and has excellent anti-static properties. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-4054-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.905 g/cc	0.905 g/cc	ISO 1183
Bulk Density	0.525 g/cc	0.0190 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	90	90	ISO 2039-2
Tensile Strength, Yield	33.0 MPa	4790 psi	ISO 527-2
Elongation at Yield	10 %	10 %	ISO 527-2
Tensile Modulus	1.45 GPa	210 ksi	ISO 527-2
Flexural Modulus	1.35 GPa	196 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.600 J/cm ²	2.86 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)	100 °C	212 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	120°C per hour; ISO 752
Vicat Softening Point	85.0 °C @Load 5.10 kg	185 °F @Load 11.2 lb	50°C per hour; ISO 306
	150 °C	302 °F	50°C per hour; ISO 306

Thermal Properties

Metric
@Load 1.02 kg

English
@Load 2.25 lb

Comments

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