

## Total PPH 4070 Polypropylene Homopolymer

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

### Material Notes:

Polypropylene PPH 4070 is a homopolymer polypropylene with a Melt Flow index of 3 g/10 min. Polypropylene PPH 4070 has been designed for the production of BOPP film with the tenter frame process and for the production of cast film. The product offers an excellent processability and allows the production of films with a very high modulus. Polypropylene PPH 4070 is suitable for metallizable films. It is calcium stearate free. Information provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PPH-4070-Polypropylene-Homopolymer.php](http://www.lookpolymers.com/polymer_Total-PPH-4070-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 <sup>3</sup>	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	94	94	ISO 2039-2
Tensile Strength, Yield	37.0 MPa	5370 psi	ISO 527-2
Elongation at Yield	9.0 %	9.0 %	ISO 527-2
Tensile Modulus	1.95 GPa	283 ksi	ISO 527-2
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 180
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	106 °C	223 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	58.0 °C	136 °F	120°C per hour; ISO 752
Vicat Softening Point	90.0 °C @Load 5.10 kg	194 °F @Load 11.2 lb	50°C per hour; ISO 306

Thermal Properties	152 °C Metric	306 °F English	Comments
	@Load 1.02 kg	@Load 2.25 lb	50 °C per hour, ISO 306

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