

## Total PPH 4026 Polypropylene Homopolymer, Film

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

### Material Notes:

Polypropylene PPH 4026 is a homopolymer polypropylene with a Melt Flow index of 3 g/10 min for the cast extrusion of films with outstanding stiffness and heat resistance. Polypropylene PPH 4026 is intended for applications like hot fill food packaging, labeling, twist or lamination films. Information provided by Total Petrochemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Total-PPH-4026-Polypropylene-Homopolymer-Film.php](http://www.lookpolymers.com/polymer_Total-PPH-4026-Polypropylene-Homopolymer-Film.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
Thickness	50.0 microns	1.97 mil	
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	95	95	ISO 2039-2
Film Tensile Strength at Yield, MD	31.0 MPa	4500 psi	ISO 527-3
Film Tensile Strength at Yield, TD	29.0 MPa	4210 psi	ISO 527-3
Tensile Strength, Yield	39.0 MPa	5660 psi	ISO 527-2
Film Elongation at Break, MD	470 %	470 %	ISO 527-3
Film Elongation at Break, TD	580 %	580 %	ISO 527-3
Elongation at Yield	9.0 %	9.0 %	ISO 527-2
Tensile Modulus	2.05 GPa	297 ksi	ISO 527-2
Flexural Modulus	2.00 GPa	290 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
Elmendorf Tear Strength, MD	0.600 g/micron	15.2 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	9.00 g/micron	229 g/mil	ISO 6383-2
Dart Drop Test	80.0 g	0.176 lb	ISO 7765-1

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	62.0 MPa	8980 psi	ISO 527-3
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	120°C per hour; ISO 752
Vicat Softening Point	97.0 °C @Load 5.10 kg	207 °F @Load 11.2 lb	50°C per hour; ISO 306
	153 °C @Load 1.02 kg	307 °F @Load 2.25 lb	50°C per hour; ISO 306

Optical Properties	Metric	English	Comments
Haze	14 %	14 %	ISO 14782
Gloss	51 %	51 %	at 45°; ASTM D2457

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