

## PolyOne Maxxam™ PPH-40T Nat Polypropylene Homopolymer (PP Homopolymer)

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

PolyOne's Maxxam™ family of polypropylene- and polyethylene-based products covers a wide range of applications, markets and performance requirements. Standard grades are compounded with calcium carbonate, glass and talc to provide a desired balance of properties including stiffness, durability, impact resistance and heat resistance. Custom grades are available with features such as UV stabilizers, heat stabilizers, custom color, high impact, etc. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Maxxam-PPH-40T-Nat-Polypropylene-Homopolymer-PP-Homopolymer.php](http://www.lookpolymers.com/polymer_PolyOne-Maxxam-PPH-40T-Nat-Polypropylene-Homopolymer-PP-Homopolymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 230 °C	11 g/10 min @Load 4.76 lb, Temperature 446 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	92	92	ASTM D785
Tensile Strength, Yield	32.4 MPa	4700 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	15 %	15 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	57.7 MPa	8370 psi	ASTM D790
Flexural Modulus	3.79 GPa	550 ksi	ASTM D790
Izod Impact, Notched	0.270 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	0.506 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	1.40 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.62 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	147 °C @Thickness 3.18 mm	297 °F @Thickness 0.125 in	Unannealed; ASTM D648
	HB	HB	

Flammability UL 94 Thermal Properties	Metric @ Thickness 1.50 mm	English @ Thickness 0.0591 in	ALL: UL 94 Comments
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Processing Properties	Metric	English	Comments
Mold Temperature	16.0 - 50.0 °C	60.8 - 122 °F	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Features	General Purpose	
	Homopolymer	
Filler / Reinforcement	Talc Filler	
	Unspecified FillerReinfor., 40% Filler by Weight	
Forms	Pellets	
Generic Material	PP Homopolymer	
Generic Name	Polypropylene Homopolymer (PP Homopolymer)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Automotive Applications	
	Construction Applications	
	Consumer Applications	
	General Purpose	
	Industrial Applications	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China