

PolyOne Maxxam™ PPC-40C Nat Polypropylene Copolymer (PP Copolymer)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

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-PPC-40C-Nat-Polypropylene-Copolymer-PP-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ASTM D955
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	75	75	ASTM D785
Tensile Strength, Yield	17.2 MPa	2490 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	200 %	200 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	25.9 MPa	3760 psi	ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.41 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Gardner Impact	17.6 J @Thickness 3.18 mm, Temperature 23.0 °C	13.0 ft-lb @Thickness 0.125 in, Temperature 73.4 °F	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.1 °C @Thickness 3.18 mm	205 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	ALL; UL 94

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Mold Temperature	16.0 - 50.0 °C	60.8 - 122 °F	

Descriptive Properties	Value	Comments
Appearance	Natural Color	
Features	Copolymer	
	General Purpose	
	Medium Flow	
	Medium Impact Resistance	
Filler / Reinforcement	Calcium Carbonate Filler	
	Unspecified FillerReinfor., 40% Filler by Weight	
Forms	Pellets	
Generic Material	PP Copolymer	
Generic Name	Polypropylene Copolymer (PP Copolymer)	
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	

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