

PolyOne Maxxam™ PPC-20T 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-20T-Nat-Polypropylene-Copolymer-PP-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	70	70	ASTM D785
Tensile Strength, Yield	24.8 MPa	3600 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	60 %	60 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	37.9 MPa	5500 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	0.590 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.11 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	8.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	15.2 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256
Gardner Impact	9.26 J @Thickness 3.18 mm, Temperature -23.0 °C	6.83 ft-lb @Thickness 0.125 in, Temperature -9.40 °F	ASTM D3029
Dart Drop Total Energy	6.73 J/cm	0.0126 ft-lb/mil	Energy to Maximum Load; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	244 °F	Unannealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

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

Descriptive Properties	Value	Comments
Additive	Impact Modifier	
Appearance	Natural Color	
Features	Copolymer	
	General Purpose	
	Impact Modified	
Filler / Reinforcement	Talc Filler	
	Unspecified FillerReinfor., 20% 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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