

PolyOne Maxxam™ MX5210-0040 RS Natural 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-MX5210-0040-RS-Natural-Polypropylene-Homopolymer-PP-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	88.9 MPa	12900 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	143 MPa	20700 psi	ASTM D790
Flexural Modulus	7.10 GPa	1030 ksi	ASTM D790
Izod Impact, Notched	1.20 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	2.25 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	162 °C @Thickness 3.18 mm	324 °F @Thickness 0.125 in	Unannealed; ASTM D648

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

Descriptive Properties	Value	Comments
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Agency Ratings Descriptive Properties	FDA Unspecified Rating Value	FDA rating based on application usage Comments
Appearance	Natural Color	
Features	Chemically Coupled	
	General Purpose	
	Homopolymer	
	Low Flow	
Filler / Reinforcement	Glass Fiber Reinforcement	
	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	Consumer Applications	
	General Purpose	
	Hospital Goods	
	Industrial Applications	
	Medical Appliances	

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