

PolyOne Maxxam™ PPR-20G Black 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. Product Code: EM00901245**Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Maxxam-PPR-20G-Black-Polypropylene-Homopolymer-PP-Homopolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 230 °C	5.0 g/10 min @Load 4.76 lb, Temperature 446 °F	Procedure A; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	64.1 MPa	9300 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	10 %	10 %	Type I, 51 mm/min; ASTM D638
Flexural Strength	90.3 MPa	13100 psi	ASTM D790
Flexural Modulus	3.52 GPa	511 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.29 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Injection Molded; ASTM D256A
Izod Impact, Unnotched	3.10 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	5.81 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)	157 °C @Thickness 3.18 mm	315 °F @Thickness 0.125 in	Unannealed; ASTM D648
	HB	HB	

Thermal Properties	Metric	English	Comments
Flammability: UL 94	@ Thickness 1.50 mm	@ Thickness 0.0591 in	ALL: UL 94

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

Descriptive Properties	Value	Comments
Appearance	Black	
Features	Chemically Coupled	
	General Purpose	
	Homopolymer	
Filler / Reinforcement	Glass Fiber Reinforcement	
	Unspecified FillerReinfor., 20% 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	

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