

PolyOne Geon™ Vinyl Rigid Molding MR200 Polyvinyl Chloride, Rigid (PVC, Rigid)

Category : Polymer , Thermoplastic , Vinyl (PVC) , PVC, Rigid Grade

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-MR200-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	63.5 cm	25.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ISO 868
Tensile Strength, Yield	49.0 MPa	7110 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	30 %	30 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.69 GPa	390 ksi	ASTM D790
Izod Impact, Notched	3.70 J/cm	6.93 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	8.50 J/cm	15.9 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	67.8 °C	154 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
UL RTI, Electrical	29.4 °C	84.9 °F	UL 746
UL RTI, Mechanical with Impact	10.0 °C	50.0 °F	UL 746
UL RTI, Mechanical without Impact	29.4 °C	84.9 °F	UL 746

Thermal Properties Flammability, UL 94	Metric	English	Comments All colors; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	All colors; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 204 °C	390 - 399 °F	

Descriptive Properties	Value	Comments
Appearance	Opaque	
Features	General Purpose	
	High Impact Resistance	
	Medium Flow	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Recycled Content	Yes	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Appliances	
	Automotive Interior Parts	
	Business Equipment	
	Construction Applications	
	Electrical/Electronic Applications	
	General Purpose	
	Telecommunications	

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