

PolyOne Geon™ Vinyl Rigid Molding M4805 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-M4805-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	ASTM D2240
Tensile Strength, Yield	44.8 MPa	6500 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	40 %	40 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.41 GPa	350 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	68.9 MPa	9990 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	6.90 J/cm	12.9 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 0.46 MPa (66 psi)	70.0 °C	158 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	72.8 °C	163 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa (264 psi)	67.8 °C	154 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	71.1 °C Metric	160 °F English	Comments ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
UL RTI, Electrical	50.0 °C	122 °F	UL 746
UL RTI, Mechanical with Impact	50.0 °C	122 °F	UL 746
UL RTI, Mechanical without Impact	50.0 °C	122 °F	UL 746
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.91 mm	@Thickness 0.0752 in	

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
	@Thickness 3.81 mm	@Thickness 0.150 in	
Transmission, Visible	75 %	75 %	ASTM D1003
	@Thickness 3.81 mm	@Thickness 0.150 in	

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

Descriptive Properties	Value	Comments
Appearance	Clear/Transparent	
Features	General Purpose	
	High Flow	
	High Impact Resistance	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	

Descriptive Properties	Value America	Comments
Uses	General Purpose	

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