

PolyOne Geon™ Vinyl Rigid Molding M5240 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-M5240-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	61.0 cm	24.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	ASTM D2240
Tensile Strength, Yield	42.7 MPa	6190 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	45 %	45 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.34 GPa	339 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	71.0 MPa	10300 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	3.70 J/cm	6.93 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Injection Molded; ASTM D256A
	7.50 J/cm	14.1 ft-lb/in	
	@Thickness 3.18 mm, Temperature 23.0 °C	@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)	72.8 °C	163 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	77.8 °C	172 °F	

Thermal Properties	Metric @ Thickness 6.35 mm	English @ Thickness 0.250 in	Annealed* ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.1 °C	160 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	76.1 °C	169 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
UL RTI, Electrical	90.0 °C	194 °F	UL 746
UL RTI, Mechanical with Impact	85.0 °C	185 °F	UL 746
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL 746
Flammability, UL94	V-0	V-0	ALL; UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 °C	390 - 410 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
	High Impact Resistance	
	Medium Flow	
Forms	Pellets	
Generic Material	PVC, Rigid	
Generic Name	Polyvinyl Chloride, Rigid (PVC, Rigid)	
Outdoor Suitability	f1	UL 746C; All Colors
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

Uses	Construction Applications
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Descriptive Properties	Value	Comments
	General Purpose	
	Outdoor Applications	

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