

PolyOne Geon™ Vinyl Rigid Molding M5731 Polyvinyl Chloride, Rigid (PVC, Rigid)

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

Material Notes:

NOTE: Geon weatherable compounds contain pigments and ingredients that, along with processing conditions, contribute to the weathering performance of the PVC compounds. Dark colored compounds do not contain the same level of pigments as light colored compounds. The weathering performance of dark colored compounds generally is inferior to light colored compounds. Therefore, in applications where processors or customers would like to use a dark colored compound, it is the customer's responsibility to determine whether or not the weathering performance is acceptable in their specific end-use application. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-Vinyl-Rigid-Molding-M5731-Polyvinyl-Chloride-Rigid-PVC-Rigid.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	88.9 cm	35.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	15 sec; ASTM D2240
Tensile Strength, Yield	42.7 MPa	6190 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	50 %	50 %	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	0.530 J/cm	0.993 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	2.70 J/cm	5.06 ft-lb/in	
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	Injection Molded; ASTM D256A
	4.30 J/cm	8.06 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)	73.9 °C	165 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	77.8 °C	172 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa (264 psi)	72.2 °C	162 °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	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 1.60 mm	@Thickness 0.0630 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.91 mm	@Thickness 0.0752 in	

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

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

Descriptive Properties	North America Value	Comments
	South America	
Uses	Construction Applications	
	General Purpose	
	Outdoor Applications	

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