

PolyOne Geon™ HTX M6307 Polyvinyl Chloride Alloy (PVC Alloy)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-HTX-M6307-Polyvinyl-Chloride-Alloy-PVC-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Spiral Flow	76.2 cm	30.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Yield	29.6 MPa	4290 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	94 %	94 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	1.72 GPa	249 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	50.3 MPa	7300 psi	ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
	3.70 J/cm	6.93 ft-lb/in	
	@Thickness 3.18 mm, Temperature -18.0 °C	@Thickness 0.125 in, Temperature -0.400 °F	
	5.90 J/cm	11.1 ft-lb/in	Injection Molded; ASTM D256A
	@Thickness 3.18 mm, Temperature 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	7.50 J/cm	14.1 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)	73.9 °C	165 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.35 mm Metric	@Thickness 0.250 in English	Comments
	81.1 °C	178 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa (264 psi)	68.9 °C	156 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	73.9 °C	165 °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 2.01 mm	@Thickness 0.0791 in	
	5VA	5VA	ALL; UL 94
	@Thickness 2.01 mm	@Thickness 0.0791 in	

Processing Properties	Metric	English	Comments
Melt Temperature	202 - 207 °C	396 - 405 °F	
Drying Temperature	68.3 °C	155 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	High Flow	
	Low Temperature Impact Resistance	
Forms	Pellets	
Generic Material	PVC Alloy	
Generic Name	Polyvinyl Chloride Alloy (PVC Alloy)	
Outdoor Suitability	f1	UL 746C; Gray
QUV Weatherometer	0.58%	351 Lamp, All Colors, detla E (CIE), 24 hrs light, 300 hrs, No Moisutre
Regional Availability	Africa & Middle East	
	Asia Pacific	

Descriptive Properties	Europe Value	Comments
	North America	
	South America	
Uses	Construction Applications	
	Electrical/Electronic Applications	
	Outdoor Applications	
	Telecommunications	

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