

PolyOne Geon™ HTX M6230 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-M6230-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	73.7 cm	29.0 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	ASTM D2240
Tensile Strength, Yield	43.4 MPa	6290 psi	Type I, 51 mm/min; ASTM D638
Elongation at Break	15 %	15 %	Type I, 51 mm/min; ASTM D638
Tensile Modulus	2.34 GPa	339 ksi	Type I, 51 mm/min; ASTM D638
Flexural Strength	75.8 MPa	11000 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 0.000 °C	@Thickness 0.125 in, Temperature 32.0 °F	
	1.10 J/cm	2.06 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)	82.2 °C	180 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
	92.2 °C	198 °F	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	Unannealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	

Thermal Properties	90.0 °C Metric	194 °F English	Comments ATTACHED, 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 Colors
	@Thickness 1.47 mm	@Thickness 0.0579 in	
	V-0	V-0	ALL; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	ALL; UL 94
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	All Colors
	@Thickness 1.55 mm	@Thickness 0.0610 in	

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 210 °C	399 - 410 °F	

Descriptive Properties	Value	Comments
Features	General Purpose	
	High Flow	
	Medium Impact Resistance	
Forms	Pellets	
Generic Material	PVC Alloy	
Generic Name	Polyvinyl Chloride Alloy (PVC Alloy)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Appliances	

Descriptive Properties	Business Equipment Value	Comments
	Construction Applications	
	Electrical/Electronic Applications	
	General Purpose	
	Telecommunications	

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