

PolyOne Geon™ HTX Ultra LA427Plus Polyvinyl Chloride Alloy (PVC Alloy)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Recommend drying material for a minimum of 2 hours at 160 degrees Fahrenheit. Physical properties based on Geon HTX Ultra LA427Plus Natural 0000 Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-HTX-Ultra-LA427Plus-Polyvinyl-Chloride-Alloy-PVC-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	79	79	15 sec; ASTM D2240
Tensile Strength, Yield	45.0 MPa	6530 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	2.99 GPa	434 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	80.7 MPa	11700 psi	ASTM D790
Flexural Modulus	2.94 GPa	426 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	13.3 J/cm @Temperature 23.0 °C	0.0249 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	26.7 J/cm @Temperature 23.0 °C	0.0500 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	93.9 °C @Thickness 3.18 mm	201 °F @Thickness 0.125 in	Unannealed; ASTM D648
	95.0 °C @Thickness 3.18 mm	203 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.1 °C @Thickness 3.18 mm	187 °F @Thickness 0.125 in	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
	@Thickness 3.18 mm	@Thickness 0.125 in	Annealed, ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	174 - 193 °C	345 - 379 °F	

Descriptive Properties	Value	Comments
Ease of Sizing	Acceptable	
Features	High Stiffness	
	Low CLTE	
Forms	Pellets	
Generic Material	PVC Alloy	
Generic Name	Polyvinyl Chloride Alloy (PVC Alloy)	
Processing Method	Extrusion	
PVC Cell Classification	13355	ASTM D1784
	4-20034-30-000	ASTM D4216
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Profiles	

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