

PolyOne Geon™ HTX Ultra LA425 Polyvinyl Chloride Alloy (PVC Alloy)

Category : Polymer , Thermoplastic , Vinyl (PVC)

Material Notes:

Optimum for Black and Darker Colors below 50L value. Recommend drying material for a minimum of 2 hours at 160 degrees Fahrenheit.

Ductile/Brittle transition as measured by Instrumented Impact is 5 deg.C Physical properties based on Geon HTX Ultra LA425 Natural

0000Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Geon-HTX-Ultra-LA425-Polyvinyl-Chloride-Alloy-PVC-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	15 sec; ASTM D2240
Tensile Strength, Yield	37.9 MPa	5500 psi	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	1.99 GPa	289 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	66.1 MPa	9590 psi	ASTM D790
Flexural Modulus	2.08 GPa	302 ksi	ASTM D790
Izod Impact, Notched	7.20 J/cm @Thickness 3.18 mm, Temperature 23.0 °C	13.5 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	Compression Molded; ASTM D256A
Dart Drop Total Energy	66.7 J/cm @Temperature 23.0 °C	0.125 ft-lb/mil @Temperature 73.4 °F	Procedure A, C.125; ASTM D4226
	178 J/cm @Temperature 23.0 °C	0.333 ft-lb/mil @Temperature 73.4 °F	Procedure B, C.125; ASTM D4226

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	86.0 µm/m-°C	47.8 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	90.6 °C @Thickness 3.18 mm	195 °F @Thickness 0.125 in	Unannealed; ASTM D648
	91.1 °C @Thickness 3.18 mm	196 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	83.9 °C	183 °F	Unannealed; ASTM D648

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
	87.2 °C	189 °F	Annealed; ASTM D648
	@Thickness 3.18 mm	@Thickness 0.125 in	

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

Descriptive Properties	Value	Comments
Ease of Sizing	Acceptable	
Features	Good Weather Resistance	
	High Impact Resistance	
	High Stiffness	
Forms	Pellets	
Generic Material	PVC Alloy	
Generic Name	Polyvinyl Chloride Alloy (PVC Alloy)	
Processing Method	Extrusion	
PVC Cell Classification	15225	ASTM D1784
	4-42411-64-0000	ASTM D4216
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Outdoor Applications	
	Profiles	

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