



Geon™ HTX Ultra LA425

Polyvinyl Chloride Alloy

Key Characteristics

Product Description			
Optimum for Black and Darker Colors below 50L value.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Impact Resistance	• High Stiffness	• Weather Resistant
Uses	• Outdoor Applications	• Profiles	
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22	ASTM D792
PVC Cell Classification	4-42411-64-0000	4-42411-64-0000	ASTM D4216
PVC Cell Classification	15225	15225	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	289000 psi	1990 MPa	ASTM D638
Tensile Strength ² (Yield)	5490 psi	37.9 MPa	ASTM D638
Flexural Modulus	302000 psi	2080 MPa	ASTM D790
Flexural Strength	9590 psi	66.1 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	14 ft·lb/in	720 J/m	ASTM D256A
Drop Impact Resistance 73°F (23°C) ³	1.50 in·lb/mil	66.7 J/cm	ASTM D4226
73°F (23°C) ⁴	4.00 in·lb/mil	178 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	74	74	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	195 °F	90.6 °C	ASTM D648
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	196 °F	91.1 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	183 °F	83.9 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	189 °F	87.2 °C	ASTM D648
CLTE - Flow	4.8E-5 in/in/°F	8.6E-5 cm/cm/°C	ASTM D696

Additional Information	Typical Value (English)	Typical Value (SI)
Ease of Sizing	Acceptable	Acceptable
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 0000		

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	345 to 380 °F	174 to 193 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

³ Procedure A, C.125 Dart

⁴ Procedure B, C.125 Dart



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