Geon™ HTX Ultra LA427Plus

Polyvinyl Chloride Alloy

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Stiffness	• Low CLTE	
Uses	• Profiles		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.25	1.25	ASTM D792
PVC Cell Classification	4-20034-30-000	4-20034-30-000	ASTM D4216
PVC Cell Classification	13355	13355	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	434000 psi	2990 MPa	ASTM D638
Tensile Strength [2] (Yield)	6530 psi	45.0 MPa	ASTM D638
Flexural Modulus	426000 psi	2940 MPa	ASTM D790
Flexural Strength	11700 psi	80.7 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact			ASTM D256A
73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.5 ft·lb/in	80 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	0.300 in·lb/mil	13.3 J/cm	
73°F (23°C) [4]	0.600 in·lb/mil	26.7 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D, 15 sec)	79	79	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	201 °F	93.9 °C	
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	203 °F	95.0 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	187 °F	86.1 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	192 °F	88.9 °C	
CLTE - Flow	3.6E-5 in/in/°F	6.4E-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 Farenheit.
Physical properties based on Geon HTX Ultra LA427Plus 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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