Geon™ HTX Ultra LA436G Black 2880

Polyvinyl Chloride Alloy

Key Characteristics

Product Description			
Higher gloss, wider processing window version of Geon HTX Ultra LA426G.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability	• High Gloss	• High Impact Resistance
Uses	• Capstock	• Outdoor Applications	• Profiles
Forms	• Cube	• Pellets	
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.21	1.21	ASTM D792
PVC Cell Classification	441311640000	441311640000	ASTM D4216
PVC Cell Classification	14215	14215	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	278000 psi	1920 MPa	ASTM D638
Tensile Strength [2] (Yield)	5220 psi	36.0 MPa	ASTM D638
Flexural Modulus	296000 psi	2040 MPa	ASTM D790
Flexural Strength	8510 psi	58.7 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	9.2 ft·lb/in	490 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.17 in·lb/mil	52.0 J/cm	
73°F (23°C) [4]	2.50 in·lb/mil	111 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			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	191 °F	88.3 °C	
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	190 °F	87.8 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	178 °F	81.1 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	185 °F	85.0 °C	
CLTE - Flow	4.6E-5 in/in/°F	8.3E-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 measured on LA436G Black 2880. This version produces the highest gloss, higher impact and can be run at lower extruder temperatures than standard LA426G product.

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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