Geon™ Vinyl Rigid Extrusion L7035

Rigid Polyvinyl Chloride

Key Characteristics

Product Description			
Geon L7035 is recommended for whites and light pastel colors only. Not recommended for horizontal applications such as railing and decking except in white.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Weather Resistance	• Medium Impact Resistance	
Uses	• Outdoor Applications	• Profiles	
Forms	• Cube		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.47	1.47	ASTM D792
PVC Cell Classification	15354	15354	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	431000 psi	2970 MPa	ASTM D638
Tensile Strength [2] (Yield)	6500 psi	44.8 MPa	ASTM D638
Flexural Modulus	477000 psi	3290 MPa	ASTM D790
Flexural Strength	12200 psi	84.1 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 [3]	11 to 15 ft·lb/in	570 to 810 J/m	
73°F (23°C), 0.125 in (3.18 mm), Compression Molded [4]	2.4 ft·lb/in	130 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [5, 6]	1.69 in·lb/mil	75.2 J/cm	
73°F (23°C) [7, 8]	1.70 to 1.75 in·lb/mil	75.6 to 77.8 J/cm	
73°F (23°C) [7, 6]	2.02 in·lb/mil	89.9 J/cm	
73°F (23°C), 0.0800 in (2.03 mm) [9, 10]	1.61 in·lb/mil	71.6 J/cm	
73°F (23°C), 0.0800 in (2.03 mm) [11, 10]	1.22 in·lb/mil	54.3 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), Annealed, 0.125 in (3.18 mm) [12]	168 °F	75.6 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [13]	165 °F	73.9 °C	

Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded [12]	165 °F	73.9 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded [13]	160 °F	71.1 °C	
CLTE - Flow	3.1E-5 in/in/°F	5.5E-5 cm/cm/°C	ASTM D696

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

Note: Physical properties based on Geon L7035 white 1405 Lot#4901061 unless noted otherwise.

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	360 to 380 °F	182 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] Physical property based on lab scale production sample.

[4] Physical property based on commercial production sample. Compression molding of extruded strips.

[5] Procedure A, C.125 Dart

[6] Physical property based on lab scale production sample run on 2.5" commercial extruder.

[7] Procedure B, C.125 Dart

[8] Physical property based production sample run on 2.5" commercial extruder.

[9] Procedure A, 1/8 conical

[10] Based on customer extrusion of commercial production sample.

[11] Procedure B, 0.125" conical

[12] Annealed at 60 deg.C

[13] Annealed at 50 deg.C

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