Geon™ Advex™ L6105 natural

Rigid Polyvinyl Chloride

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	• General Purpose	• Profiles	
Forms	• Cube		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.48	1.48	ASTM D792
PVC Cell Classification	12474	12474	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	685000 psi	4720 MPa	ASTM D638
Tensile Strength [2] (Yield)	7950 psi	54.8 MPa	ASTM D638
Flexural Modulus	658000 psi	4540 MPa	ASTM D790
Flexural Strength	13800 psi	95.1 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	0.80 ft·lb/in	43 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.20 in·lb/mil	53.4 J/cm	
73°F (23°C) [4]	1.20 in·lb/mil	53.4 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D, 15 sec)	81	81	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Annealed [5]	174 °F	78.9 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [6]	171 °F	77.2 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed [5]	171 °F	77.0 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm) [6]	165 °F	73.9 °C	
CLTE - Flow	2.5E-5 in/in/°F	4.6E-5 cm/cm/°C	ASTM D696
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating [7]			UL 94
0.0591 to 0.118 in (1.50 to 3.00 mm), natural	V-0	V-0	

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] Procedure A, C.125 Dart

[4] Procedure B, C.125 Dart

[5] Annealed at 60 deg.C

[6] Annealed at 50 deg.C

[7] Also capable of meeting 5VA flame rating.

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