Geon™ Vinyl Rigid Extrusion L6701

Rigid Polyvinyl Chloride

PolyOne Corporation

Message:

Geon L6701 exhibits improved impact properties at lower processing temperatures than Geon 8700X and L6700 products.

General Information			
Features	Good dimensional stability		
	Good melt strength		
Uses	Profile		
Forms	Cube		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm³	ASTM D792
PVC Cell Classification	15344		ASTM D1784
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2670	MPa	ASTM D638
Tensile Strength ² (Yield)	44.9	MPa	ASTM D638
Flexural Modulus	3010	MPa	ASTM D790
Flexural Strength	81.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256A
23°C, 3.18mm, molded ³	150	J/m	ASTM D256A
23°C, 3.18mm, molded ⁴	650	J/m	ASTM D256A
23°C, 3.18mm, molded ⁵	460 - 740	J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
23°C	71.2	J/cm	ASTM D4226
23°C	> 178	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, annealed, 3.18mm ⁶	77.8	°C	ASTM D648
0.45 MPa, annealed, 3.18mm ⁷	75.9	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁸	77.0	°C	ASTM D648
1.8 MPa, annealed, 3.18mm, molded ⁹	72.2	°C	ASTM D648
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Additional Information	Nominal Value		
Ease of Sizing	Excellent		

Physical properties based on Geon L6701 natural 0000 lot# 4948764 sample unless specified.			
Extrusion	Nominal Value	Unit	
Melt Temperature	182 - 193	°C	
NOTE			
1.	Type 1, 5.1 mm/min		
2.	Type 1, 5.1 mm/min		
3.	Based on commercial production sample extruded profiles.		
4.	Based on commercial production sample milled sheet.		
5.	Obtained from lab scale compound extruded on 2.5" commercial scale machine.		
6.	Annealed at 60 deg.C		
7.	Annealed at 50 deg.C		
8.	Annealed at 60 deg.C		
9.	Annealed at 50 deg.C		

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