Geon™ Vinyl Rigid Extrusion 87566

Rigid Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• UV Absorbing		
Uses	• General Purpose	• Profiles	
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.34	1.34	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	370000 psi	2550 MPa	ASTM D638
Tensile Strength [2] (Yield)	7200 psi	49.6 MPa	ASTM D638
Flexural Modulus	421000 psi	2900 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), Injection Molded	2.5 ft·lb/in	130 J/m	
Drop Impact Resistance	1.15 in·lb/mil	51.4 J/cm	ASTM D4226
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 D648A
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [3]	160 °F	71.1 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [4]	166 °F	74.3 °C	
Deflection Temperature Under Load			ASTM D648A
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Injection Molded [3]	156 °F	69.1 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Injection Molded [4]	162 °F	72.2 °C	
CLTE - Flow			ASTM D696
-22 to 86°F (-30 to 30°C), 0.125 in (3.18 mm)	3.8E-5 in/in/°F	6.8E-5 cm/cm/°C	

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] Annealed at 122 degree F (50 degree C)

[4] Annealed at 140 degree F (60 degree C)

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