Geon™ Vinyl Dry Blend E7009

Rigid Polyvinyl Chloride

Key Characteristics

Product Description			
Recommended for whites and light pastel colors only. Not to be used for darker colors.			
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	• Profiles	• Windows & Doors	
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.51	1.51	ASTM D792
PVC Cell Classification	1-22434-42-0000	1-22434-42-0000	ASTM D4216
PVC Cell Classification	12364	12364	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	445000 psi	3070 MPa	ASTM D638
Tensile Strength [2] (Yield)	6820 psi	47.0 MPa	ASTM D638
Flexural Modulus	481000 psi	3320 MPa	ASTM D790
Flexural Strength	12200 psi	84.0 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	1.2 ft·lb/in	64 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.68 in·lb/mil	74.7 J/cm	
73°F (23°C) [4]	3.18 in·lb/mil	141 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D)	80	80	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) [5]	173 °F	78.3 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) [6]	175 °F	79.4 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded [5]	165 °F	73.9 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded [6]	173 °F	78.3 °C	
CLTE - Flow	3.3E-5 in/in/°F	5.9E-5 cm/cm/°C	ASTM D696

Additional Information
Physical properties based on Geon E7009 white 1024 lot# UTCX 57572

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	380 to 410 °F	193 to 210 °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 50 deg.C

[6] Annealed at 60 deg.C

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