



Geon™ Vinyl Dry Blend E3363

Rigid Polyvinyl Chloride

Key Characteristics

Product Description

Geon E3363 is suitable for darker colors above a 60 L value. 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 Color Stability • Medium Impact Resistance		
Uses	• Outdoor Applications • Profiles		
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.45	1.45	ASTM D792
PVC Cell Classification	1-22443-43-0000	1-22443-43-0000	ASTM D4216
PVC Cell Classification	13344	13344	ASTM D1784
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	382000 psi	2630 MPa	ASTM D638
Tensile Strength ² (Yield)	6940 psi	47.9 MPa	ASTM D638
Flexural Modulus	428000 psi	2950 MPa	ASTM D790
Flexural Strength	12700 psi	87.4 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact - Across Flow 73°F (23°C), 0.125 in (3.18 mm), Compression Molded	1.8 ft·lb/in	95 J/m	ASTM D256A
Drop Impact Resistance			ASTM D4226
73°F (23°C) ^{3, 4}	1.99 in·lb/mil	88.5 J/cm	
73°F (23°C) ⁵	2.75 in·lb/mil	122 J/cm	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore D)	78	78	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) ⁶	170 °F	76.4 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm) ⁷	173 °F	78.3 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ⁶	171 °F	77.0 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm), Compression Molded ⁸	176 °F	80.2 °C	
CLTE - Flow	3.5E-5 in/in/°F	6.4E-5 cm/cm/°C	ASTM D696

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Additional Information

Physical properties based on Geon E3363 gray 2581 production sample.

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	380 to 400 °F	193 to 204 °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 Extruded strip thickness was 0.090"
- ⁵ Procedure B, C.125 Dart
- ⁶ Annealed at 50 deg.C
- ⁷ Annealed at 60 deg.C
- ⁸ Annealed at 60. deg.C

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