Geon™ Vinyl Dry Blend E1355

Rigid Polyvinyl Chloride

Key Characteristics

Product Description			
Geon E1355 is not recommended for traditional pipe extrusion applications, where Geon E1354 performs well. Major application is spiral hose re-inforcement.			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Automotive Interior Parts • Hose	• Profiles • Tubing	
Agency Ratings	• NSF 14	• NSF 61	
Forms	• Powder		
Processing Method	• Extrusion		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.42	1.42	ASTM D792
PVC Cell Classification	12454	12454	ASTM D1784
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [2]	429000 psi	2960 MPa	ASTM D638
Tensile Strength [2] (Yield)	7280 psi	50.2 MPa	ASTM D638
Flexural Modulus	430000 psi	2960 MPa	ASTM D790
Flexural Strength	13600 psi	93.8 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	1.0 ft·lb/in	54 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C) [3]	1.41 in·lb/mil	62.7 J/cm	
73°F (23°C) [4]	4.80 in·lb/mil	214 J/cm	
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore D)	83	83	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	162 °F	72.0 °C	
CLTE - Flow	3.2E-5 in/in/°F	5.8E-5 cm/cm/°C	ASTM D696

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] Procedure B, C.125 Dart

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