Geon™ Vinyl Flexible R351AE

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• Low Temperature Resistant	• Medium Gloss
Uses	• Construction Applications • Flooring	• Furniture • General Purpose	• Profiles
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	• Profile Extrusion

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.35	1.35	ASTM D792
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2] (100% Strain)	2300 psi	15.9 MPa	ASTM D638
Tensile Strength [2] (Break)	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation [2] (Break)	280 %	280 %	ASTM D638
Elastomers	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tear Strength [3]	575 lbf/in	101 kN/m	ASTM D624
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness (Shore A, 15 sec)	88	88	ASTM D2240
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Brittleness Temperature	-13.0 °F	-25.0 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	380 to 400 °F	193 to 204 °C
Extrusion	**Typical Value (English)**	**Typical Value (SI)**
Melt Temperature	340 to 355 °F	171 to 179 °C

Notes

[1] Typical values are not to be construed as specifications.

[2] Type IV, 20 in/min (510 mm/min)

[3] Die C, 20 in/min (510 mm/min)

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