



Geon™ Vinyl Flexible 86280

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low Gloss		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.14	1.14	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tear Resistance ²	130 lbf/in	22.8 kN/m	ASTM D1004
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress ³ (100% Strain)	550 psi	3.79 MPa	ASTM D412A
Tensile Strength ³ (Yield)	1350 psi	9.31 MPa	ASTM D412A
Tensile Elongation ³ (Break)	390 %	390 %	ASTM D412A
Compression Set (73°F (23°C), 22 hr)	10 %	10 %	ASTM D395
Clash-Berg Modulus (-31°F (-35°C))	5400 psi	37.2 MPa	ASTM D1043
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A)	55	55	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-53.0 °F	-47.2 °C	ASTM D746

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	350 to 380 °F	177 to 193 °C
Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	335 to 345 °F	168 to 174 °C

Notes

¹ Typical values are not to be construed as specifications.

² Die C, 2 in/min

³ 20 in/min (510 mm/min)

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