



Geon™ Vinyl Flexible A90U2

Flexible Polyvinyl Chloride

Key Characteristics

Product Description

GENERAL PURPOSE CLEAR PVC COMPOUND WITH LOW LEVEL OF U.V. INHIBITOR, to be used only in interior applications.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• High Gloss	
Uses	• General Purpose		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24	ASTM D792
Molding Shrinkage - Flow	0.013 to 0.017 in/in	1.3 to 1.7 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	1580 psi	10.9 MPa	ASTM D638
Tensile Strength ² (Break)	2700 psi	18.6 MPa	ASTM D638
Tensile Elongation ² (Break)	390 %	390 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	490 lbf/in	85.8 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	37 %	37 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	79000 psi	545 MPa	
-11°F (-24°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	91	91	
Shore A, 15 sec	85	85	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-29.0 °F	-33.9 °C	ASTM D746
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Transmittance ⁴ (75.0 mil (1910 µm))	80.0 %	80.0 %	ASTM D1003
Haze (75.0 mil (1910 µm))	5.00 %	5.00 %	ASTM D1003

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	350 to 360 °F	177 to 182 °C

Notes

¹ Typical values are not to be construed as specifications.

² 20 in/min (510 mm/min)

³ Die C, 20 in/min (510 mm/min)

⁴ CIE Illuminant C



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