



Geon™ Vinyl Flexible A70U0

Flexible Polyvinyl Chloride

Key Characteristics

Product Description

This product contains a UV screener, but is not intended for outdoor applications in transparent form.

General

Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• High Gloss	• UV Resistant	
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	1.17	1.17	ASTM D792
Molding Shrinkage - Flow	0.019 to 0.023 in/in	1.9 to 2.3 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (100% Strain)	660 psi	4.55 MPa	ASTM D638
Tensile Strength ² (Break)	1600 psi	11.0 MPa	ASTM D638
Tensile Elongation ² (Break)	450 %	450 %	ASTM D638
Elastomers	Typical Value (English)	Typical Value (SI)	Test Method
Tear Strength ³	230 lbf/in	40.3 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	18 %	18 %	ASTM D395
Clash-Berg Modulus			ASTM D1043
--	5400 psi	37.2 MPa	
-62°F (-52°C)	45000 psi	310 MPa	
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A	70	70	
Shore A, 15 sec	59	59	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-60.0 °F	-51.1 °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 350 °F	171 to 177 °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)