

GEON® Flex A7000

GEON Performance Solutions - Flexible Polyvinyl Chloride

Monday, June 17, 2024

General Information

Product Description			
Interior compound used primarily in transparent applications. This product is registered under UL 94 HB specifications @ 3.0 and 1.5 mm. thickness and all colors.			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• High Gloss	
Uses	• General Purpose		
Agency Ratings	• NSF STD-51 ¹	• UL 94 ²	
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ³

Physical	Nominal Value (English)	Nominal 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	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ⁴			ASTM D638
Break	1600 psi	11.0 MPa	
100% Strain	660 psi	4.55 MPa	
Tensile Elongation ⁴ (Break)	450 %	450 %	ASTM D638
Elastomers	Nominal Value (English)	Nominal Value (SI)	Test Method
Tear Strength ⁵	230 lbf/in	40.3 kN/m	ASTM D624
Compression Set (73°F (23°C), 22 hr)	18 %	18 %	ASTM D395
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness			ASTM D2240
Shore A, Instant	70	70	
Shore A, 15 sec	61	61	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-46.0 °F	-43.3 °C	ASTM D746
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Light Transmittance ⁶ (75.00 mil (1905 µm))	82.0 %	82.0 %	ASTM D1003
Haze (75.00 mil (1905 µm))	4.00 %	4.00 %	ASTM D1003

Processing Information

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	380 to 400 °F	193 to 204 °C
Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	340 to 350 °F	171 to 177 °C

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Notes

¹ Trans 9423.

Max. Temp. of use = 100 deg. F.

² HB, ALL COLORS, (1.5 and 3.0 mm).

³ Typical properties: these are not to be construed as specifications.

⁴ 20 in/min (510 mm/min)

⁵ Die C, 20 in/min (510 mm/min)

⁶ CIE Illuminant C

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