

GEON® Duracap™ L4605 Green 5765

GEON Performance Solutions - Semi-Rigid Polyvinyl Chloride

Tuesday, June 18, 2024

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Capstock • Outdoor Applications		
Forms	• Pellets		
Processing Method	• Coextrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.39	1.39	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ²	280000 psi	1930 MPa	ASTM D638
Tensile Strength ² (Yield)	4530 psi	31.2 MPa	ASTM D638
Flexural Modulus ³	277000 psi	1910 MPa	ASTM D790
Flexural Strength ³ (Yield)	8110 psi	55.9 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.125 in (3.18 mm), Compression Molded	0.69 ft-lb/in	37 J/m	
Drop Impact Resistance			ASTM D4226
73°F (23°C), extruded profile ⁴	1.56 in-lb/mil	69.4 J/cm	
73°F (23°C) ⁵	> 4.00 in-lb/mil	> 178 J/cm	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D, 15 sec)	75	75	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.125 in (3.18 mm)	109 °F	42.8 °C	
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	108 °F	42.2 °C	
264 psi (1.8 MPa), Unannealed, 0.125 in (3.18 mm)	102 °F	38.9 °C	
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	97.0 °F	36.1 °C	
CLTE - Flow	4.2E-5 in/in/°F	7.5E-5 cm/cm/°C	ASTM D696
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (60°)	5 to 30	5 to 30	ASTM D523

Processing Information

Injection	Nominal Value (English)	Nominal Value (SI)
Processing (Melt) Temp	360 to 380 °F	182 to 193 °C

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Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.20 in/min (5.1 mm/min)

³ 0.50 in/min (13 mm/min)

⁴ Procedure A, C.125

⁵ Procedure B, C.125

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