

GEON® Flex WR3792CL

GEON Performance Solutions - Flexible Polyvinyl Chloride

Monday, June 17, 2024

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
Uses	• Electrical/Electronic Applications • Insulation • Wire & Cable Applications		
Wire Types	• AWM	• FT-4	
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion Coating		

ASTM & ISO Properties ¹

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.33	1.33	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ² (Yield)	2730 psi	18.8 MPa	ASTM D638
Tensile Elongation ² (Break)	350 %	350 %	ASTM D638
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	83	83	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-11.2 °F	-24.0 °C	ASTM D746
UL Temperature Rating ³	221 °F	105 °C	CSA
Aging	Nominal Value (English)	Nominal Value (SI)	
Retention of Tensile Elongation ⁴ 250°F (121°C), 35.0 mil (889.0 µm)	99 %	99 %	
Retention of Tensile Strength ⁴ 250°F (121°C), 35.0 mil (889.0 µm)	90 %	90 %	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	6.0E+13 ohms·cm	6.0E+13 ohms·cm	ASTM D257
Dielectric Constant			ASTM D150
73°F (23°C), 0.0750 in (1.91 mm), 1 MHz	3.47	3.47	
73°F (23°C), 0.0750 in (1.91 mm), 10 MHz	3.12	3.12	
73°F (23°C), 0.0750 in (1.91 mm), 100 MHz	2.98	2.98	
73°F (23°C), 0.0750 in (1.91 mm), 1.00 GHz	2.95	2.95	
Dissipation Factor			ASTM D150
73°F (23°C), 0.0750 in (1.91 mm), 1 MHz	0.066	0.066	
73°F (23°C), 0.0750 in (1.91 mm), 10 MHz	0.030	0.030	
73°F (23°C), 0.0750 in (1.91 mm), 100 MHz	0.014	0.014	
73°F (23°C), 0.0750 in (1.91 mm), 1.00 GHz	0.015	0.015	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Oxygen Index (0.125 in (3.18 mm))	29 %	29 %	ASTM D2863

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Additional Information

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.

Processing Information		
Extrusion	Nominal Value (English)	Nominal Value (SI)
Melt Temperature	330 to 360 °F	166 to 182 °C

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Type IV, 20 in/min (510 mm/min)
- ³ 105°C CSA Rated.
- ⁴ 500 hr, UL Standard

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