

GEON® Flex WEMB406

GEON Performance Solutions - Flexible Polyvinyl Chloride

Tuesday, June 18, 2024

General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
Uses	• Automotive Applications	• Building Wire Insulation	• Wire & Cable Applications
Wire Types	• THHW	• THW	• TW
Agency Ratings	• UL QMTT2	• UL VW-1	
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• SAE J1128		
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)	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation ² (Break)	360 %	360 %	ASTM D638
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	87	87	ASTM D2240
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	-4.00 °F	-20.0 °C	ASTM D746
UL Temperature Rating	221 °F	105 °C	
Aging	Nominal Value (English)	Nominal Value (SI)	
Retention of Tensile Elongation ³ 277°F (136°C), 30.0 mil (762.0 µm)	91 %	91 %	
Retention of Tensile Strength ³ 277°F (136°C), 30.0 mil (762.0 µm)	100 %	100 %	
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	5.6E+15 ohms·cm	5.6E+15 ohms·cm	ASTM D257
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Oxygen Index (0.125 in (3.18 mm))	28 %	28 %	ASTM D2863

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	350 to 370 °F	177 to 188 °C

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Notes

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

² Type IV, 20 in/min (510 mm/min)

³ 168 hr, UL Standard

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