



Geon™ Vinyl Flexible R3790B

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Lead Stabilizer		
Features	• Flame Retardant		
Uses	• Insulation	• Wire & Cable Applications	
Wire Types	• TW		
Forms	• Pellets		
Processing Method	• Extrusion Coating		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.29	1.29	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation ² (Break)	400 %	400 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	73	73	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-50.8 °F	-46.0 °C	ASTM D746
Aging	Typical Value (English)	Typical Value (SI)	
Retention of Tensile Elongation ³ 250°F (121°C), 75.0 mil (1.91 mm)	80 %	80 %	
Retention of Tensile Strength ³ 250°F (121°C), 75.0 mil (1.91 mm)	100 %	100 %	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Volume Resistivity	7.9E+14 ohms·cm	7.9E+14 ohms·cm	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Oxygen Index (0.0750 in (1.91 mm))	25 %	25 %	ASTM D2863

Additional Information

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

Processing Information

Extrusion	Typical Value (English)	Typical Value (SI)
Melt Temperature	320 to 338 °F	160 to 170 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ 500 hr, UL Standard