



Geon™ Vinyl Flexible R3090S

Flexible Polyvinyl Chloride

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Uses	• Cable Jacketing	• Flexible Cord Jacketing	• Wire & Cable Applications
Agency Ratings	• UL QMFZ2		
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion Coating		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.18	1.18	ASTM D792
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength ² (Yield)	1600 psi	11.0 MPa	ASTM D638
Tensile Elongation ² (Break)	370 %	370 %	ASTM D638
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Durometer Hardness (Shore A, 15 sec)	66	66	ASTM D2240
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	-29.2 °F	-34.0 °C	ASTM D746
Aging	Typical Value (English)	Typical Value (SI)	
Retention of Tensile Elongation ³ 277°F (136°C), 75.0 mil (1.91 mm)	80 %	80 %	
Retention of Tensile Strength ³ 277°F (136°C), 75.0 mil (1.91 mm)	110 %	110 %	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.06 in (1.5 mm), BK	V-2	V-2	
0.06 in (1.5 mm), NC	V-2	V-2	
0.06 in (1.5 mm), RD	V-2	V-2	
Oxygen Index (0.0750 in (1.91 mm))	21 %	21 %	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	311 to 329 °F	155 to 165 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type IV, 20 in/min (510 mm/min)

³ 168 hr, UL Standard