Syncure™ GR150
Crosslinked Polyethylene

Key Characteristics

Product Description		
Graft Resin component for PolyOne's Syncure™ system, which is a two-step, silane-grafted, moisture-crosslinkable polyethylene system. Graft Resins have approximate shelf life of 6 months from the date of production. Please consult PolyOne for its use past 6 months.		
General		
Material Status	• Commercial: Active	
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Uses	• Wire & Cable Applications	
Forms	• Pellets	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.923 g/cm³	0.923 g/cm³	ASTM D1505
Apparent (Bulk) Density [2]	0.50 g/cm³	0.50 g/cm³	Internal Method
Melt Mass-Flow Rate (MFR) [3] (190°C/2.16 kg)	0.39 g/10 min	0.39 g/10 min	ASTM D1238
Gel Content [4]	75 %	75 %	ASTM D2765
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Modulus [5]	1600 psi	11.0 MPa	ASTM D638
Tensile Strength [5] (Break)	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation [5] (Break)	600 %	600 %	ASTM D638
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deformation [6] (268°F (131°C))	3.6 %	3.6 %	UL 1581
Hot Creep Elongation [7]	35 %	35 %	

Additional Information
Tensile, Elongation, Deformation, Hot Creep, and Gel measured on a 95 phr GR150 / 5 phr S1000B system; and cured by environmental chamber at 90C/95% RH for 14 hours.

Notes

[1] Typical values are not to be construed as specifications.

[2] Geon® 1169

[3] Procedure A

[4] Crosslinked PE, Method B (NonReferee Test)

[5] Type IV, 20 in/min (510 mm/min)

[6] 500 g, 1hr

[7] SYV-40