Syncure™ System S117FH
Crosslinked Polyethylene

Key Characteristics

General		
Material Status	• Commercial: Active	
Regional Availability	• North America	
Uses	• Automotive Applications	• Wire & Cable Applications
Automotive Specifications	• SAE J1128	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Extrusion Coating	

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.18	1.18	ASTM D792
Gel Content [2]	60 %	60 %	ASTM D2765
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [3] (Yield)	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation [3] (Break)	400 %	400 %	ASTM D638
Hardness	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Durometer Hardness			ASTM D2240
Shore D	62	62	
Shore D, 10 sec	57	57	
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deformation [4] (268°F (131°C))	18 %	18 %	UL 1581
Aging	**Typical Value (English)**	**Typical Value (SI)**	
Retention of Tensile Elongation [5]			
311°F (155°C), 75.0 mil (1.91 mm)	120 %	120 %	
Retention of Tensile Strength [5]			
311°F (155°C), 75.0 mil (1.91 mm)	100 %	100 %	
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Test [6]	Pass	Pass	SAE J1128
Additional Information	**Typical Value (English)**	**Typical Value (SI)**	
Catalyst Masterbatch - V-0064G RoHS	40 %	40 %	
Grafted Base Resin - S-1075A	60 %	60 %	

NOTE: The above represents Typical Properties measured on 20 AWG with 16 mil wall.
STORAGE AND HANDLING: Use within 48 hours once package is open to avoid self-curing and scrap.

Notes

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

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

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

[4] 500 g, 1hr

[5] 168 hr, UL Standard

[6] 45 degree

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