



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
Density / 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