

Syncure™ S1027A

Crosslinked Polyethylene

PolyOne Corporation

Message:

Moisture cross-linked polyethylene composite material. Base resin composition, used in the Syncure system of Plivan.

General Information			
Uses	Wire and cable applications		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ASTM D1505
Apparent Density ¹	0.53	g/cm ³	Internal method
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	0.73	g/10 min	ASTM D1238
Gel Content ³	75	%	ASTM D2765
Appearance	Particles/cubes		ASTM D2090
Tensile strength retention rate ⁴ (168°C, 1.91 mm)	85	%	
Elongation retention rate ⁵ (168°C, 1.91 mm)	80	%	
Deformation ⁶ (131°C)	3.0	%	UL 1581
Thermal creep elongation ⁷	35	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ⁸ (Break)	17.9	MPa	ASTM D638
Tensile Elongation ⁹ (Break)	450	%	ASTM D638

Additional Information

张力,炉内老化值基于100 phr S1027A / 20 phr V0022G系统测量得出.变形值,热蠕变和凝胶值基于95 phr S1027A / 5 phr S1000B系统测量得出;全部在90摄氏度的水中硫化6小时.颗粒外观为 1/8"圆柱状.

NOTE	
1.	Geon® 1169
2.	Procedure A
3.	Cross-linked PE, Method B (Non-Arbitration Test)
4.	168 hours, UL standard
5.	168 hours, UL standard
6.	500g,1 hour
7.	SYV-40
8.	Type 4, 510mm/min
9.	Type 4, 510mm/min

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