

Solvay Specialty Polymers Polidan® S/I 20 Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Crosslinkable

Material Notes:

POLIDAN® S/I 20 is a silane crosslinkable PE compound which is used together with a catalyst masterbatch to accelerate the crosslinking reaction. It is used for injection molding. Features: Crosslinkable; High Density Uses: Fittings; Industrial Applications; Plumbing Parts Additional Properties: Extruder Screw Compression Ratio - >2.5:1; Extruder Screw L/D Ratio - 25:1 to 30:1; Gel Content - EN 579 > 65 %; Head Temperature - 200 °C; Shrinkage - ASTM D638 < 0.50 %; Shrinkage - ASTM D638 < 3.0 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Polidan-SI-20-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D792
Melt Flow	2.8 g/10 min	2.8 g/10 min	ISO 1133

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 µm/m-°C @Temperature 20.0 °C	83.3 µin/in-°F @Temperature 68.0 °F	1
Specific Heat Capacity	1.90 J/g-°C	0.454 BTU/lb-°F	ASTM C351
Thermal Conductivity	0.460 - 0.480 W/m-K	3.19 - 3.33 BTU-in/hr-ft ² -°F	ASTM C177
Vicat Softening Point	126 °C	259 °F	ASTM D1525

Compliance Properties	Metric	English	Comments
NSF	Yes	Yes	NSF 61

Processing Properties	Metric	English	Comments
Zone 1	150 - 200 °C	302 - 392 °F	
Zone 2	150 - 200 °C	302 - 392 °F	
Zone 3	150 - 200 °C	302 - 392 °F	
Zone 4	150 - 200 °C	302 - 392 °F	
Zone 5	150 - 200 °C	302 - 392 °F	
Die Cooling Temperature	210 °C	410 °F	

Descriptive Properties	Value	Comments
Agency Ratings	BS 6920; KTW	
Availability	Asia Pacific	
	Europe	
	North America	
Processing Technique	Injection Molding	

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