

Solvay Specialty Polymers Polidan® T/A-SP Polyethylene, Crosslinked (XLPE)

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

Material Notes:

POLIDAN® T/A-SP is a silane crosslinkable PE compound which is used together with a catalyst masterbatch to accelerate the crosslinking reaction. It is used for flexible crosslinkable pipes. Features: Crosslinkable; Good Processing Stability; High Density Uses: Piping; Plumbing Parts; Potable Water Applications 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 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in ³	ASTM D792
Melt Flow	0.60 g/10 min	0.60 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength	>= 20.0 MPa	>= 2900 psi	ASTM D638
Elongation at Break	>= 400 %	>= 400 %	ASTM D638
Tensile Modulus	0.670 GPa	97.2 ksi	ISO 527-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C @Temperature 20.0 °C	88.9 µin/in-°F @Temperature 68.0 °F	1
Specific Heat Capacity	1.80 J/g-°C	0.430 BTU/lb-°F	ASTM C351
Thermal Conductivity	0.470 - 0.490 W/m-K	3.26 - 3.40 BTU-in/hr-ft ² -°F	ASTM C177
Vicat Softening Point	127 °C	261 °F	ASTM D1525

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	

Processing Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Agency Ratings	ISO 15875 /2		
Availability	Asia Pacific		
	Europe		
	North America		
Processing Technique	Extrusion; Pipe Extrusion		

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