

Solvay Specialty Polymers Polidan® PNT 0553/23 Polyethylene, Crosslinked (XLPE)

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

Material Notes:

POLIDAN® PNT 0553/23 is a silane crosslinkable PE compound which is used together with a catalyst masterbatch to accelerate the crosslinking reaction. Features: Crosslinkable; Good Flexibility; Low Density Uses: Connectors; Hose; Rubber Replacement 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-PNT-055323-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Density	0.902 g/cc	0.0326 lb/in ³	ASTM D792
Melt Flow	0.40 g/10 min	0.40 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	0.0280 GPa	4.06 ksi	ISO 527-2

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	2.03 J/g-°C	0.485 BTU/lb-°F	ASTM C351
Thermal Conductivity	0.450 - 0.470 W/m-K	3.12 - 3.26 BTU-in/hr-ft ² -°F	ASTM C177
Vicat Softening Point	84.0 °C	183 °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	
Die Cooling Temperature	210 °C	410 °F	

Descriptive Properties	Value	Comments
Agency Ratings	DVGW W270; KTW Unspecified Rating	
Availability	Asia Pacific	
	Europe	
	North America	
Processing Technique	Extrusion; Pipe Extrusion	

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