

Solvay Specialty Polymers Polidan® TUX 100 Polyethylene, Crosslinked (XLPE)

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

Material Notes:

Polidan® TUX 100 is a high density crosslinkable polyethylene compound manufactured according to the Sioplas® process. It has been developed for the production of crosslinked pipes in a wide range of diameters and wall thickness. Features: Crosslinkable; Good Abrasion Resistance; Good Chemical Resistance; Good Crack Resistance; Good Strength; High Density; High ESCR (Stress Crack Resist.); High Heat Resistance; Specialty Grade Uses: Fittings; Industrial Applications; Oil/Gas Applications; Piping Additional Properties: Gel Content - EN 579 > 65 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Polidan-TUX-100-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D792
Melt Flow	1.3 g/10 min	1.3 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	6.00 MPa	870 psi	50 mm/min; ISO 527-2
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	26.0 MPa	3770 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	50 mm/min; ISO 527-2
	47.0 MPa	6820 psi	
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
Elongation at Break	110 %	110 %	ISO 527-2
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	170 %	170 %	
	@Temperature 100 Â°C	@Temperature 212 Â°F	ISO 527-2
	390 %	390 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Elongation at Yield	7.0 %	7.0 %	Type 1B, 50 mm/min; ISO 527-2
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	8.0 %	8.0 %	

Mechanical Properties	Metric	English	Comments
	@ Temperature 23.0 Â°C	@ Temperature 73.4 Â°F	Type 1B, 50 mm/min; ISO 527-2
	16 %	16 %	
	@Temperature 100 Â°C	@Temperature 212 Â°F	
Tensile Modulus	0.130 GPa	18.9 ksi	1 mm/min; ISO 527-2
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	1.25 GPa	181 ksi	1 mm/min; ISO 527-2
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.30 GPa	479 ksi	1 mm/min; ISO 527-2
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
Flexural Modulus	0.167 GPa	24.2 ksi	ISO 178
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	2.60 GPa	377 ksi	ISO 178
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
Charpy Impact, Notched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	Type 1, Edgewise; ISO 179
	@Temperature -40.0 Â°C	@Temperature -40.0 Â°F	
	NB	NB	Type 1, Edgewise; ISO 179
	@Temperature 100 Â°C	@Temperature 212 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 Âµm/m-Â°C	55.6 Âµin/in-Â°F	3
	@Temperature -90.0 - - 30.0 Â°C	@Temperature -130 - - 22.0 Â°F	
	140 Âµm/m-Â°C	77.8 Âµin/in-Â°F	3
	@Temperature -100 - 100 Â°C	@Temperature -148 - 212 Â°F	
	190 Âµm/m-Â°C	106 Âµin/in-Â°F	3
	@Temperature -30.0 - 90.0 Â°C	@Temperature -22.0 - 194 Â°F	
Vicat Softening Point	88.0 Â°C	190 Â°F	ISO 306

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
	PE100; KTW	
Availability	Asia Pacific	
	Europe	
	North America	
Processing Technique	Extrusion; Injection Molding; Pipe Extrusion	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China