

Evonik Corporation Vestamid® E62-S3 Heat & Light Stabilized Nylon 12/PEBA Elastomer for Fiber Optic Jacketing

Category : Polymer , Thermoplastic , Elastomer, TPE , Nylon , Nylon 12 , Polyether Block Amide (PEBA)

Material Notes:

Description: E62-S3 is a PA 12 block copolymer consisting of PA 12 segments and polyether segments. The compound exhibits high flexibility and high chemical and solvent resistance. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestamid-E62-S3-Heat-Light-Stabilized-Nylon-12PEBA-Elastomer-for-Fiber-Optic-Jacketing.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Water Absorption at Saturation	1.5 %	1.5 %	ISO 62
Melt Flow	20.2 g/10 min @Load 2.16 kg, Temperature 250 °C	20.2 g/10 min @Load 4.76 lb, Temperature 482 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ISO 868
Tensile Strength, Yield	24.0 MPa	3480 psi	ISO 527-2/1A
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2/1A
Elongation at Yield	31 %	31 %	ISO 527-2/1A
Tensile Modulus	0.360 GPa	52.2 ksi	ISO 527-1/2
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179/1eU
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	12.0 J/cm ² @Temperature 23.0 °C	57.1 ft-lb/in ² @Temperature 73.4 °F	Partial Break; ISO 179/1eA

Thermal Properties	Metric	English	Comments
	200 µm/m-°C	111 µin/in-°F	

CTE, linear Thermal Properties	Metric @ Temperature 23.0 -	English @ Temperature 73.4 -	ISO 11359 Comments
	80.0 °C	176 °F	
Melting Point	175 - 178 °C	347 - 352 °F	DSC

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