

Evonik Corporation Vestamid® E50-R2 Heat & Light Stabilized Nylon 12/PEBA Elastomer

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

Material Notes:

Description: Compared to other contending thermoplastic elastomers, PA 12 elastomers are distinguished by the following properties: They have low density. They are highly resistant to chemicals and solvents. They are easy to process and color and are easy to overmold. They can be decorated easily by means of heat transfer printing. They have excellent impact strength at low temperatures. Their hardness and flexibility can be varied over a wide range. They have high elasticity and good recovery. Their mechanical properties are only slightly temperature-dependent. They are free of volatile or migrating plasticizers. Applications: permanently antistatic articles (R=102 - 105?), e.g., conveyor belts, housings, paint spray hoses. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestamid-E50-R2-Heat-Light-Stabilized-Nylon-12PEBA-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	ISO 868
Tensile Strength at Break	20.0 MPa	2900 psi	ISO 527-1, ISO 527-2
Elongation at Break	>= 200 %	>= 200 %	ISO 527-1, ISO 527-2
Tensile Modulus	0.170 GPa	24.7 ksi	ISO 527-1, ISO 527-2
50% Modulus	0.0130 GPa	1.89 ksi	ISO 527-1, ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	NB	NB	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	NB	NB	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	Spec.; IEC 60093
Surface Resistance	10000 ohm	10000 ohm	Spec.; IEC 60093

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