

Evonik Corporation Vestamid® EX9200 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: decorative and protective films for sports articles and interior/exterior designs on automobiles. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestamid-EX9200-Heat-Light-Stabilized-Nylon-12PEBA-Elastomer.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
Viscosity Test	190 cm ³ /g	190 cm ³ /g	Viscosity Number; ISO 307

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ISO 868
Tensile Strength, Yield	31.0 MPa	4500 psi	ISO 527-1, ISO 527-2
Elongation at Break	>= 200 %	>= 200 %	ISO 527-1, ISO 527-2
Elongation at Yield	19 %	19 %	ISO 527-1, ISO 527-2
Tensile Modulus	0.700 GPa	102 ksi	ISO 527-1, ISO 527-2
50% Modulus	0.0270 GPa	3.92 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	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	3.30 J/cm ²	15.7 ft-lb/in ²	Partial Break; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
CTE, linear	160 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	88.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	Longitudinal; ISO 11359
	@Temperature 23.0 - 55.0 $^{\circ}\text{C}$	@Temperature 73.4 - 131 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	160 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	88.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359
	@Temperature 23.0 - 55.0 $^{\circ}\text{C}$	@Temperature 73.4 - 131 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 $^{\circ}\text{C}$	113 $^{\circ}\text{F}$	ISO 75-1
Vicat Softening Point	130 $^{\circ}\text{C}$	266 $^{\circ}\text{F}$	50N; ISO 306
	170 $^{\circ}\text{C}$	338 $^{\circ}\text{F}$	10N; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	Spec.; IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	Spec.; IEC 60093
Dielectric Constant	4.6	4.6	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	7.4	7.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	K20/P50; IEC 60243-1
Dissipation Factor	0.076	0.076	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.15	0.15	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	Test Solution A; IEC 60112

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