

EMS-Grivory Grivory® ELX 40 HNZ TPA

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon ELX 40 H NZ is a high viscosity, heat stabilized, impact modified, thermoplastic PA6 elastomer for extrusion blow moulding applications. Grilon ELX 40 H NZ has the following important properties: High melt strength Impact resistant even at low temperatures Easy processing Processable on conventional as well as on 3 D-machines Suitable for sequential blow molding process in combination with flexible grades Grilon ELX 40 H NZ is used typically as flexible part in the sequential blow molding technology in combination with a rigid PA6 grade such as Grilon RVZ-15H.1 or Grilon R 50 H NZ. Application examples are air ducts for turbo-chargers and engine air ducts. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-ELX-40-HNZ-TPA.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Water Absorption	6.5 %	6.5 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	conditioned, 15s; ISO 868
	58	58	dry, 15s; ISO 868
Tensile Stress	16.0 MPa	2320 psi	conditioned; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	21.0 MPa	3050 psi	dry; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.250 GPa	36.3 ksi	conditioned; ISO 527-1/-2
	0.550 GPa	79.8 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU

Mechanical Properties	NB Metric	NB English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	NB	NB	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	2.50 J/cm ²	11.9 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	170 µm/m-°C	94.4 µin/in-°F	ISO 11359-1/-2
Melting Point	210 °C	410 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	60.0 °C	140 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	conditioned; IEC 60093
	1.00e+11 ohm-cm	1.00e+11 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	26.0 kV/mm	660 kV/in	conditioned; IEC 60243-1
	28.0 kV/mm	711 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
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Descriptive Properties	Value	Comments
	Cooling and climate control	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Extrusion - blow molding	
	Other Extrusion	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	

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