

EMS-Grivory Grivory® 1S XE 4224 nat PA1010

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product Description: Grilamid XE 4224 natural is a heat and UV stabilized high viscosity polyamide 1010 (PA1010), designed for extrusion. In addition the product can be used for thicker injection molded articles. Grilamid XE 4224 is characterized by the following product profile: Close to 100% based on renewable resources Good chemical and UV resistance Ductile, resilient Low moisture absorption High dimensional stability Low density Grilamid XE 4224 natural is suitable for applications in areas like: Consumer goods Automotive functional parts Semi-fabricates Tubes, film, sheet, profiles Cable sheathing and protection Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-1S-XE-4224-nat-PA1010.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Water Absorption	2.1 %	2.1 %	ISO 62
Moisture Absorption	1.00 %	1.00 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	80.0 MPa	11600 psi	conditioned; ISO 2039-1
	110 MPa	16000 psi	dry; ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	55.0 MPa	7980 psi	dry; ISO 527-1/-2
Elongation at Break	30 %	30 %	dry; ISO 527-1/-2
	45 %	45 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	20 %	20 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.30 GPa	189 ksi	conditioned; ISO 527-1/-2
	2.00 GPa	290 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	NB	NB	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	Comments conditioned; ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	dry; ISO 179/1eA
	0.900 J/cm ²	4.28 ft-lb/in ²	conditioned; ISO 179/1eA
	0.600 J/cm ² @Temperature 30.0 °C	2.86 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	0.700 J/cm ² @Temperature 30.0 °C	3.33 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	200 °C	392 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	dry; IEC 60093
	1.00e+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	38.0 kV/mm	965 kV/in	dry; IEC 60243-1
	38.0 kV/mm	965 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Powertrain and Chassis	
Electricals & Electronics	Cables & Tubes	
	Connectors	
Form	Granules	

Industry & Consumer goods Descriptive Properties	Housewares Value	Comments
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Film Extrusion	
	Other Extrusion	
Product Attributes	Bio based Polyamide	
	High viscosity	
	Nucleated	
Special Characteristics	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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