

EMS-Grivory Grivory® XE 4158 nat PA612

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Product description: Grilamid XE 4158 natural is a medium viscosity Polyamide 12 with super high impact strength. The main features of Grilamid XE 4158 natural are: Very good hydrolysis resistance Good heat stability High UV- and weathering resistance Super high cold impact strength Good chemical resistance Good surface finish Good dimensional stability Low density Grilamid XE 4158 natural is suitable for the extrusion of profiles and tubes for applications in automotive and industrial markets. In addition it can be used for injection molding applications such as winter sport items for which high impact strength at low temperatures is required. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4158-nat-PA612.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in ³	ISO 1183
Water Absorption	1.3 %	1.3 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	dry, 15s; ISO 868
	65	65	conditioned, 15s; ISO 868
Tensile Strength, Yield	30.0 MPa	4350 psi	dry; ISO 527-1/-2
	30.0 MPa	4350 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	<= 50 %	<= 50 %	dry; ISO 527-1/-2
Elongation at Yield	13 %	13 %	dry; ISO 527-1/-2
	18 %	18 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.750 GPa	109 ksi	conditioned; ISO 527-1/-2
	1.00 GPa	145 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	8.50 J/cm ²	40.4 ft-lb/in ²	dry; ISO 179/1eA
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eA
	4.00 J/cm ²	19.0 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	170 µm/m-°C	94.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	210 µm/m-°C	117 µin/in-°F	ISO 11359-1/-2
Melting Point	179 °C	354 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 100 °C	194 - 212 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °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+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+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	40.0 kV/mm	1020 kV/in	dry; IEC 60243-1
	40.0 kV/mm	1020 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Compressed air systems	
	Cooling and climate control	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
	Other Extrusion	
Product Attributes	Flexible	
	Hydrolysis resistant	
	Improved alcohol resistance	
Special Characteristics	High impact or impact modified	
	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