

EMS-Grivory Grivory® 2D 20 nat PA612

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Product Description: Grilamid 2D 20 natural is an unmodified unreinforced, medium viscosity polyamide 612 (PA612), designed for injection molding as well as extrusion. It is characterized by the following product profile: Good chemical resistance Moderate water absorption High strength Ductile, resilient in conditioned stage Low density Grilamid 2D 20 natural is suitable for applications at moderate continuous use temperatures and without repeated direct exposure to UV radiation. Preferred applications: Injection molded functional parts Bushes, gears Semi-fabricates such as tubes, film, sheet, profiles Sheathing guides Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-2D-20-nat-PA612.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Water Absorption	2.8 %	2.8 %	ISO 62
Moisture Absorption	1.30 %	1.30 %	ISO 62
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	conditioned, 15s; ISO 868
	81	81	dry, 15s; ISO 868
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	60.0 MPa	8700 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	4.0 %	4.0 %	dry; ISO 527-1/-2
	16 %	16 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.60 GPa	232 ksi	conditioned; ISO 527-1/-2
	2.30 GPa	334 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 9/1eU
	@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	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.600 J/cm ²	2.86 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	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Melting Point	218 °C	424 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 °C	176 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °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	dry; IEC 60093
	1.00e+10 ohm-cm	1.00e+10 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	32.0 kV/mm	813 kV/in	dry; IEC 60243-1
	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
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Descriptive Properties	Granules Value	Comments
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Tools & Accessories	
Processing	Film Extrusion	
	Other Extrusion	
Product Attributes	High viscosity	

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