

EMS-Grivory Grivory® L 25 W 40 X PA12-I

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 25 W 40 X is a flexible, plasticized, high viscosity extrusion grade of Polyamide 12 (PA12). Grilamid L 25 W 40 X is impact modified and heat and UV stabilized. The main features of Grilamid L 25 W 40 X are: Exceptional impact strength, also at low temperaturesFlexibilityUV and heat stabilityLow density, low weightEasy processing **Application examples:** Grilamid L 25 W 40 X is suitable for the production of flexible tubes and profiles requiring good low temperature impact strength for use in automotive and industrial applications.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-25-W-40-X-PA12-I.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in³	ISO 1183
Water Absorption	1.4 %	1.4 %	ISO 62
Moisture Absorption	0.700 %	0.700 %	ISO 62
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	conditioned, 15s; ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	25.0 MPa	3630 psi	
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	>= 50 %	>= 50 %	dry; ISO 527-1/-2
Elongation at Yield	20 %	20 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.360 GPa	52.2 ksi	conditioned; ISO 527-1/-2
	0.380 GPa	55.1 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	

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	NB	NB	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	0.600 J/cm²	2.86 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.30 J/cm²	6.19 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C	77.8 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	180 µm/m-°C	100 µin/in-°F	ISO 11359-1/-2
Melting Point	173 °C	343 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °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+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	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
Additives	Plasticizer	
Automotive	Air intake sytems	
	Compressed air systems	

Descriptive Properties	Fuel systems Value	Comments
	Hydraulic systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
Product Attributes	Flexible	
	High viscosity	
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