

## EMS-Grivory Grivory® XE 3841 nat PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

Product description: Grilamid XE 3841 is a flexible, heat stabilized and plasticizer-free Polyamide 12, which offers a very good processability for extrusion. Grilamid XE 3841 is qualified in Europe for direct contact with foodstuffs and alcoholic beverages. The main features of Grilamid XE 3841 are: Plasticizer freeVery flexibleTranslucentGood low temperature impact strengthLow density Grilamid XE 3841 is suitable for use on Tubes used in the food preparation industry as well as pneumatic tubes.Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-XE-3841-nat-PA12.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-3841-nat-PA12.php)

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.1 %	1.1 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	conditioned, 15s; ISO 868
Tensile Strength at Break	30.0 MPa	4350 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	20.0 MPa	2900 psi	
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.350 GPa	50.8 ksi	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	conditioned; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	NB	NB	conditioned; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2

Melting Point Thermal Properties	178 °C Metric	352 °F English	10°C/min: ISO 11357-1/-3 Comments
Maximum Service Temperature, Air	80.0 - 100 °C	176 - 212 °F	long term; EMS
	130 °C	266 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	45.0 °C	113 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	43.0 kV/mm	1090 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	575 V	575 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Food contact	EU Requirements	
	FDA	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
Processing	Other Extrusion	
Product Attributes	Flexible	
Special Characteristics	High impact or impact modified	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China