

EMS-Grivory Grivory® L 25A NZ PA12-I

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 25A NZ is a high viscosity extrusion grade Polyamide 12 (PA12). Grilamid L 25A NZ is hydrolysis and heat stabilized and impact modified. The main features of Grilamid L 25A NZ are: Very good hydrolysis resistance Good heat stability Good low temperature impact strength Good chemical resistance High surface finish Good dimensional stability High processing speeds Low density, low weight **Application examples:** Grilamid L 25A NZ is suitable for the extrusion of profiles and tubes for applications in automotive and industrial markets. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-25A-NZ-PA12-I.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	66	66	conditioned, 15s; ISO 868
Tensile Strength at Break	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	30.0 MPa	4350 psi	dry; ISO 527-1/-2
	35.0 MPa	5080 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	12 %	12 %	dry; ISO 527-1/-2
	15 %	15 %	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

Mechanical Properties	NB Metric	NB English	conditioned; ISO 179/1eU Comments
	NB	NB	dry; ISO 179/1eU
	@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	10.0 J/cm ²	47.6 ft-lb/in ²	dry; ISO 179/1eA
	10.0 J/cm ²	47.6 ft-lb/in ²	conditioned; ISO 179/1eA
	7.50 J/cm ²	35.7 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.00 J/cm ²	38.1 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	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	140 µm/m-°C	77.8 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °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)	80.0 °C	176 °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

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Compressed air systems	
	Cooling and climate control	

Descriptive Properties	Value	Comments
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Sports & Leisure	
Processing	Injection Molding	
	Other Extrusion	
Product Attributes	High viscosity	
	Hydrolysis resistant	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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