

## EMS-Grivory Grivory® L 25 W 20 PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

**Product Description:** Grilamid L 25 W 20 is a semi-flexible plasticized high viscosity extrusion grade of Polyamide 12 (PA12). Grilamid L 25 W 20 is UV and heat stabilized. The main features of Grilamid L 25 W 20 are: Good impact strength Semi-flexible Good UV and heat stability Good chemical resistance Low density, low weight Very easy to process Application examples: Grilamid L 25 W 20 is particularly suitable for the production of semi-flexible tubes and profiles. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-L-25-W-20-PA12.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-25-W-20-PA12.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.5 %	1.5 %	ISO 62
Moisture Absorption	0.700 %	0.700 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	conditioned, 15s; ISO 868
Ball Indentation Hardness	40.0 MPa	5800 psi	conditioned; ISO 2039-1
Tensile Strength at Break	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	30.0 MPa	4350 psi	
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	>= 50 %	>= 50 %	dry; ISO 527-1/-2
Elongation at Yield	25 %	25 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.500 GPa	72.5 ksi	conditioned; 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	
	NB	NB	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	NB	NB	conditioned; ISO 179/1eA
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	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	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2
Melting Point	174 °C	345 °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)	100 °C	212 °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	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
Product Attributes	Flexible	
	High viscosity	

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