

EMS-Grivory Grivory® LKN-3H PA12-GB30

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Glass Bead Filled

Material Notes:

Product description: Grilamid LKN-3H is a 30% glass bead reinforced, heat stabilized polyamide 12 injection molding grade with the following property profile: Very low moisture absorptionExtremely good tolerances can be achievedVery dimensionally stableLow shrinkageGood sliding propertiesHigh abrasion resistance Grilamid LKN-3H is suitable for production of technical parts in the application fields of: ElectroElectronicsAutomotiveSafety technologyMechanical engineeringDomestic appliancesInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-LKN-3H-PA12-GB30.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ISO 1183
Water Absorption	1.2 %	1.2 %	ISO 62
Moisture Absorption	0.600 %	0.600 %	ISO 62
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 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
Ball Indentation Hardness	75.0 MPa	10900 psi	conditioned; ISO 2039-1
Tensile Strength at Break	35.0 MPa	5080 psi	conditioned; ISO 527-1/-2
	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	45.0 MPa	6530 psi	dry; ISO 527-1/-2
	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Elongation at Break	20 %	20 %	dry; ISO 527-1/-2
	25 %	25 %	conditioned; ISO 527-1/-2
Elongation at Yield	8.0 %	8.0 %	dry; ISO 527-1/-2
	10 %	10 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.60 GPa	232 ksi	conditioned; ISO 527-1/-2
	1.90 GPa	276 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	15.0 J/cm ²	71.4 ft-lb/in ²	conditioned; ISO 179/1eU
	17.0 J/cm ²	80.9 ft-lb/in ²	dry; ISO 179/1eU

Mechanical Properties	4.50 J/cm ² Metric	21.4 ft-lb/in ² English	Comments 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
	0.500 J/cm ²	2.38 ft-lb/in ²	conditioned; ISO 179/1eA
	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.300 J/cm ²	1.43 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	140 µm/m-°C	77.8 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 - 120 °C	194 - 248 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	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+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	35.0 kV/mm	889 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	

Descriptive Properties	Electrical equipment Value	Comments
	Mobile phones and other portable devices	
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Medical devices	
	Sanitary, water and gas supply	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	Improved UV resistance (outdoor use)	
Water Contact	ACS	
	DVGW W270	

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