

EMS-Grivory Grivory® TR 30 LS nat PA*

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grilamid TR 30 LS natural is a high purity transparent thermoplastic polyamide, based on aliphatic and cycloaliphatic monomers. Grilamid TR 30 LS natural contains a processing aid to improve the flow- and demolding properties. Grilamid TR 30 LS natural offers outstanding properties such as: very high stiffnessgood impact performanceexcellent transparencyhigh surface hardness and glossgood scratch resistancechemical resistance especially vs. oil, grease and fuelsstress cracking resistance Grilamid TR 30 LS natural is especially suited for production of optical and technically demanding parts in the application fields of: Electrical / ElectronicsEngineeringPneumaticsAutomotiveInformation provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TR-30-LS-nat-PA.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	conditioned; ISO 2039-1
Tensile Strength, Yield	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	conditioned; ISO 179/1eU
	NB @Temperature 30.0 °C	NB @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	conditioned; ISO 179/1eA
	1.20 J/cm ² @Temperature 30.0 °C	5.71 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1/-2
Maximum Service Temperature, Air	80.0 - 100 $^{\circ}\text{C}$	176 - 212 $^{\circ}\text{F}$	long term; EMS
	120 $^{\circ}\text{C}$	248 $^{\circ}\text{F}$	short term; EMS
Transformation Temperature, Tg	160 $^{\circ}\text{C}$	320 $^{\circ}\text{F}$	10 $^{\circ}\text{C}/\text{min}$; ISO 11357-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	135 $^{\circ}\text{C}$	275 $^{\circ}\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	ISO 75-1/-2

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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	27.0 kV/mm	686 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Additives	Lubricants	
Automotive	Automotive electr. and electronics, lighting	
	Compressed air systems	
	Cooling and climate control	
	Fuel systems	
	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
	Electrical equipment	

Descriptive Properties	Energy distribution Value	Comments
	Lighting	
	Mobile phones and other portable devices	
Form	Granules	
Industry & Consumer goods	Medical devices	
Packaging	Injectionstretchblowmoulded containers	
Processing	Injection Molding	
Product Attributes	Barrier Properties	
	Co Polyamide	
	Hydrolysis resistant	
	Partially aromatic Polyamide	
	Transparent Polyamide	
Special Characteristics	Flame retardant	

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