

EMS-Grivory Grivory® TSS/4 LF 1 PA666

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Product description: Grilon TSS/4 LF 1 is a heat stabilized, normal viscosity PA66 + PA6 injection molding grade with 1% lubricant (molybdenum disulphide). Grilon TSS/4 LF 1 has the following important properties: Low sliding friction High surface hardness Short cycle times Grilon TSS/4 LF 1 is typically used for oil dip sticks, low stressed slide rings, and damping elements. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSS4-LF-1-PA666.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	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	65.0 MPa	9430 psi	conditioned; ISO 2039-1
	140 MPa	20300 psi	dry; ISO 2039-1
Tensile Strength at Break	70.0 MPa	10200 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	dry; ISO 527-1/-2
Elongation at Break	12 %	12 %	dry; ISO 527-1/-2
	12 %	12 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.40 GPa	203 ksi	conditioned; ISO 527-1/-2
	3.30 GPa	479 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

Mechanical Properties	NB Metric	NB English	Comments
	NB	NB	
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	NB	NB	
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	conditioned; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.400 J/cm ²	1.90 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	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 100 °C	176 - 212 °F	long term; EMS
	200 °C	392 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	65.0 °C	149 °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
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	conditioned; IEC 60243-1
	27.0 kV/mm	686 kV/in	dry; IEC 60243-1
Comparative Tracking Index	475 V	475 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Interior	
	Powertrain and Chassis	
Form	Granules	
Industry & Consumer goods	Mechanical Engineering	
	Power transmission	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Improved friction & wear properties	

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