

EMS-Grivory Grivory® TSG-30/4 LF 15 PA666-(GF+Z)45

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 40% Glass Fiber Reinforced

Material Notes:

Product description: Grilon TSG-30/4 LF 15 natural is a normal viscosity, heat stabilized PA 66 + PA 6- molding type with 30% glass fibre reinforcement and 15% of a combination PTFE and siliconoil. Grilon TSG-30/4 LF 15 natural has the following important properties: High stiffness High abrasion strength Good surface slip characteristics Application examples are Grilon TSG-30/4 LF 15 natural. Slide bearing bushings Watch gears Planetary gear Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSG-304-LF-15-PA666-GFZ45.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 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	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	conditioned; ISO 527-1/-2
	100 MPa	14500 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	8.0 %	8.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	conditioned; ISO 527-1/-2
	6.50 GPa	943 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU
	5.00 J/cm ²	23.8 ft-lb/in ²	conditioned; ISO 179/1eU
	3.00 J/cm ²	14.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
			conditioned; ISO 179/1eA

Mechanical Properties	0.800 J/cm ² Metric	3.81 ft-lb/in ² English	Comments
	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	30.0 µm/m-°C	16.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 110 °C	194 - 230 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	70.0 °C	158 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

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

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