

EMS-Grivory Grivory® AS LF 20 PA66-Z20

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Product description: Grilon AS LF 20 is a heat stabilized, normal viscosity PA 66 injection molding grade with 20% lubricant (PTFE + silicon oil). Grilon AS LF 20 has the following important properties: Excellent sliding friction characteristics High wear resistance Grilon AS LF 20 is used typically for pump pistons, sliding components, slide rings and slide levers. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-AS-LF-20-PA66-Z20.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 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	60.0 MPa	8700 psi	conditioned; ISO 2039-1
	140 MPa	20300 psi	dry; ISO 2039-1
Tensile Strength, Yield	35.0 MPa	5080 psi	dry; ISO 527-1/-2
	60.0 MPa	8700 psi	dry; ISO 527-1/-2
Elongation at Break	15 %	15 %	dry; ISO 527-1/-2
	15 %	15 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
	35 %	35 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.20 GPa	174 ksi	conditioned; ISO 527-1/-2
	2.70 GPa	392 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	4.50 J/cm ²	21.4 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	dry; ISO 179/1eU Comments
	5.50 J/cm²	26.2 ft-lb/in²	conditioned; ISO 179/1eU
	@ Temperature 30.0 °C	@ Temperature 86.0 °F	
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	dry; ISO 179/1eA
	0.800 J/cm²	3.81 ft-lb/in²	conditioned; ISO 179/1eA
	0.400 J/cm²	1.90 ft-lb/in²	dry; ISO 179/1eU
	@ Temperature 30.0 °C	@ Temperature 86.0 °F	
	0.400 J/cm²	1.90 ft-lb/in²	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 - 110 °C	176 - 230 °F	long term; EMS
	180 °C	356 °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
Additives	Lubricants	

Descriptive Properties	Value	Comments
	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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