

EMS-Grivory Grivory® TSM-30 PA666-MD30

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

Material Notes:

Product description: Grilon TSM-30 is a heat stabilized, normal viscosity PA66 + PA6 injection molding grade with 30% mineral. Grilon

TSM-30 has the following important properties: Excellent surface finish Excellent flow behavior Low warpage Very good processing

Application examples are injection molding parts which demand excellent surface finish such as engine covers, fuel tank flaps, and wheel caps. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSM-30-PA666-MD30.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	6.5 %	6.5 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 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
Ball Indentation Hardness	90.0 MPa	13100 psi	conditioned; ISO 2039-1
	170 MPa	24700 psi	dry; ISO 2039-1
Tensile Strength at Break	45.0 MPa	6530 psi	conditioned; ISO 527-1/-2
	75.0 MPa	10900 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	2.30 GPa	334 ksi	conditioned; ISO 527-1/-2
	5.80 GPa	841 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	dry; ISO 179/1eU
	12.0 J/cm ²	57.1 ft-lb/in ²	conditioned; ISO 179/1eU
	3.50 J/cm ² @Temperature 30.0 °C	16.7 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eA
	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eA
	0.300 J/cm ²	1.43 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; 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	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	220 °C	428 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	27.0 kV/mm	686 kV/in	dry; IEC 60243-1
	27.0 kV/mm	686 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	525 V	525 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Form	Granules	
Processing	Injection Molding	

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