

EMS-Grivory Grivory® TSM-40/4 PA666-MD40

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

Material Notes:

Product description: Grilon TSM-40/4 is a special heat stabilized, normal viscosity PA66 + PA6 injection molding grade with 40% mineral filler. Grilon TSM-40/4 has the following important properties: Excellent flow behavior Good surface finish Low warpage Easy processing
Application examples are injection molding parts which demand a good 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-404-PA666-MD40.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Water Absorption	6.0 %	6.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	dry; ISO 527-1/-2
Elongation at Break	7.0 %	7.0 %	dry; ISO 527-1/-2
	22 %	22 %	conditioned; ISO 527-1/-2
Tensile Modulus	3.80 GPa	551 ksi	conditioned; ISO 527-1/-2
	6.00 GPa	870 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	15.0 J/cm ²	71.4 ft-lb/in ²	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	conditioned; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 μm/m-°C	38.9 μin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 μm/m-°C	38.9 μin/in-°F	ISO 11359-1/-2

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °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+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093

Descriptive Properties	Value	Comments
Form	Granules	
Processing	Injection Molding	

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