

EMS-Grivory Grivory® XE 5004 (BM-30/2 UV) PA666-MD30

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

Material Notes:

Product description: Grilon XE 5004 is a normal viscosity PA6 injection molding grade with 30% mineral reinforcement, which is additionally UV stabilized. Grilon XE 5004 has the following important properties: High stiffnessSpecial UV-stabilizationexcellent surface finishlow warpagenearly isotropic shrinkage These special properties allow the usage of Grilon XE 5004 for parts with high demands for surface quality and direct UV-treatment. Examples are Housings and for example door handles.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-5004-BM-302-UV-PA666-MD30.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	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	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	120 MPa	17400 psi	conditioned; ISO 2039-1
	175 MPa	25400 psi	dry; ISO 2039-1
Tensile Strength at Break	45.0 MPa	6530 psi	conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	9.0 %	9.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	3.70 GPa	537 ksi	conditioned; ISO 527-1/-2
	8.50 GPa	1230 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	dry; ISO 179/1eU
	6.00 J/cm ²	28.6 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	
	3.00 J/cm ²	14.3 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	conditioned; ISO 179/1eA
	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	90.0 µm/m-°C	50.0 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	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °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+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+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	conditioned; IEC 60243-1
	34.0 kV/mm	864 kV/in	dry; IEC 60243-1

Descriptive Properties	Value	Comments
Automotive	Exterior	
Form	Granules	
Industry & Consumer goods	Mechanical Engineering	
	Sports & Leisure	

Descriptive Properties	Value	Comments
Special Characteristics	Improved UV resistance (outdoor use)	
	Light stabilized or stable to light	

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