

EMS-Grivory Grivory® BM-30 FR PA6-MD30 FR

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral Filled

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BM-30-FR-PA6-MD30-FR.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Water Absorption	8.0 %	8.0 %	ISO 62
Moisture Absorption	3.00 %	3.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	45 %	45 %	conditioned; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	conditioned; ISO 527-1/-2
	6.40 GPa	928 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	3.50 J/cm ²	16.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties Charpy Impact, Notched	Metric 0.300 J/cm²	English 1.90 ft-lb/in²	Comments dry; ISO 179/1eA
	0.400 J/cm²	1.90 ft-lb/in²	conditioned; ISO 179/1eA
	0.200 J/cm² @Temperature 30.0 °C	0.952 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.200 J/cm² @Temperature 30.0 °C	0.952 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU

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	80.0 µm/m-°C	44.4 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)	100 °C	212 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 °C	122 °F	ISO 75-1/-2
Flammability, UL94	V-2	V-2	IEC 60695-11-10

Descriptive Properties	Value	Comments
Electricals & Electronics	Connectors	
	Electrical equipment	
	Energy distribution	
Form	Granules	
Processing	Injection Molding	
Special Characteristics	Flame retardant	
	Improved UV resistance (outdoor use)	

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