

EMS-Grivory Grivory® BM-30 PA6-MD30

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

Material Notes:

Product description: Grilon BM-30 is a 30% mineral reinforced PA6 injection moulding grade. Grilon BM-30 has the following important properties: heat stabilized impact resistant isotropic shrinkage light inherent colour Application examples are engineering parts with high stiffness and low warpage properties. Information provided by EMS Grivory

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	1.80 %	1.80 %	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
Ball Indentation Hardness	70.0 MPa	10200 psi	conditioned; ISO 2039-1
	170 MPa	24700 psi	dry; ISO 2039-1
Tensile Strength at Break	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	40 %	40 %	conditioned; ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	conditioned; ISO 527-1/-2
	6.50 GPa	943 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	dry; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	conditioned; ISO 179/1eU
	4.50 J/cm ²	21.4 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
4.50 J/cm ²	21.4 ft-lb/in ²	conditioned; ISO 179/1eU	
@Temperature 30.0 °C	@Temperature 86.0 °F		

Charpy Impact, Notched Mechanical Properties	0.300 J/cm ² Metric	1.43 ft-lb/in ² English	dry; ISO 179/1eA Comments
	0.300 J/cm ²	1.43 ft-lb/in ²	conditioned; ISO 179/1eA
	0.200 J/cm ² @Temperature 30.0 °C	0.952 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.200 J/cm ² @Temperature 30.0 °C	0.952 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
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)	100 °C	212 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Descriptive Properties	Value	Comments
Automotive	Interior	
Form	Granules	
Industry & Consumer goods	Mechanical Engineering	
	Tools & Accessories	
Processing	Injection Molding	

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