

## EMS-Grivory Grivory® BM-30/2 PA6-MD30

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

### Material Notes:

Product description: Grilon BM-30/2 is a 30% mineral reinforced PA6 injection molding grade. Grilon BM-30/2 has the following important properties: low warpageImpact resistantIsotropic shrinkage Application examples are engineering parts with high stiffness and low warpage propertiesInformation provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-BM-302-PA6-MD30.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BM-302-PA6-MD30.php)

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ISO 1183
Water Absorption	7.0 %	7.0 %	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	75.0 MPa	10900 psi	conditioned; ISO 2039-1
	180 MPa	26100 psi	dry; ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	dry; ISO 527-1/-2
Elongation at Break	15 %	15 %	dry; ISO 527-1/-2
	15 %	15 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	25 %	25 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.70 GPa	247 ksi	conditioned; ISO 527-1/-2
	5.00 GPa	725 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	12.5 J/cm <sup>2</sup>	59.5 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	15.0 J/cm <sup>2</sup>	71.4 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	dry; ISO 179/1eU Comments
	12.5 J/cm <sup>2</sup> @Temperature 30.0 °C	59.5 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eA
	0.400 J/cm <sup>2</sup> @Temperature 30.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	dry; ISO 179/1eU
	0.400 J/cm <sup>2</sup> @Temperature 30.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature 86.0 °F	conditioned; ISO 179/1eU

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	90.0 - 110 °C	194 - 230 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	50.0 °C	122 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	31.0 kV/mm	787 kV/in	conditioned; IEC 60243-1
	34.0 kV/mm	864 kV/in	dry; IEC 60243-1
Comparative Tracking Index	550 V	550 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Interior	

Descriptive Properties	Values	Comments
Industry & Consumer goods	Mechanical Engineering	
	Tools & Accessories	
Processing	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China