

## EMS-Grivory Grivory® BS PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Product description: Grilon BS is an unreinforced, heat stabilized standard PA6 injection molding grade with normal melt viscosity. Grilon BS has the following important properties: Good flow behavior Easy processing Light self-color Grilon BS has wide variety of applications in all market sectors, automotive, electrical, leisure and sport, e. g. suitable for clips, covers, housings. Information provided by EMS Grivory

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	ISO 1183
Water Absorption	9.0 %	9.0 %	ISO 62
Moisture Absorption	3.00 %	3.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	55.0 MPa	7980 psi	conditioned; ISO 2039-1
	120 MPa	17400 psi	dry; ISO 2039-1
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	80.0 MPa	11600 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	4.0 %	4.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.00 GPa	145 ksi	conditioned; ISO 527-1/-2
	3.00 GPa	435 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 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	70.0 - 90.0 °C	158 - 194 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °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	27.0 kV/mm	686 kV/in	conditioned; IEC 60243-1
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	dry; IEC 60112
	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Interior	
	Powertrain and Chassis	
Electricals & Electronics	Electrical appliances	

Form Descriptive Properties	Granules Value	Comments
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Sports & Leisure	
Processing	Injection Molding	
Product Attributes	Nucleated	

## Contact Songhan Plastic Technology Co.,Ltd.

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