

## EMS-Grivory Grivory® TSG-60 PA666-GF60

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 60% Glass Fiber Reinforced

### Material Notes:

Product description: Grilon TSG-60 is a heat stabilized, normal viscosity PA66 + PA6 injection molding grade with 60% glass fibers. Grilon

TSG-60 has the following important properties: Very high stiffnessExcellent flow behaviorExcellent surface finishVery good processing

Application examples are stiff injection molding parts which demand excellent surface finish such as door handles, ski bindings and

domestic appliances (can opener, chair frames)Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-TSG-60-PA666-GF60.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSG-60-PA666-GF60.php)

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	1.10 %	1.10 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	conditioned; ISO 527-1/-2
	220 MPa	31900 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	2.5 %	2.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	13.5 GPa	1960 ksi	conditioned; ISO 527-1/-2
	20.0 GPa	2900 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	9.00 J/cm <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	10.0 J/cm <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact Unnotched	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
			conditioned; ISO 179/1eA

Mechanical Properties	2.00 J/cm <sup>2</sup> Metric	9.52 ft-lb/in <sup>2</sup> English	Comments
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	265 °C	509 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 130 °C	212 - 266 °F	long term; EMS
	200 °C	392 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	230 °C	446 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	195 °C	383 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Powertrain and Chassis	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Sports & Leisure	
	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