

## EMS-Grivory Grivory® TSC-10/4 EC black 9832 PA666-CF

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

### Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-TSC-104-EC-black-9832-PA666-CF.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSC-104-EC-black-9832-PA666-CF.php)

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in <sup>3</sup>	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	1.50 %	1.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	conditioned; ISO 527-1/-2
	170 MPa	24700 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	7.0 %	7.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	6.50 GPa	943 ksi	conditioned; ISO 527-1/-2
	9.20 GPa	1330 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm <sup>2</sup>	23.8 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>	conditioned; ISO 179/1eU
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	4.00 J/cm <sup>2</sup>	19.0 ft-lb/in <sup>2</sup>	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 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>	1.90 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric $\text{N/cm}^2$	English $\text{lb/in}^2$	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	Conditioned, ISO 179/1e0

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 120 °C	194 - 248 °F	long term; EMS
	200 °C	392 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	110 °C	230 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	dry; IEC 60093
	1.00e+8 ohm-cm	1.00e+8 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+7 ohm	1.00e+7 ohm	IEC 60093
Dielectric Strength	6.00 kV/mm	152 kV/in	dry; IEC 60243-1
	6.00 kV/mm	152 kV/in	conditioned; IEC 60243-1

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Powertrain and Chassis	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	
Form	Granules	
Industry & Consumer goods	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	

Product Attributes Descriptive Properties	Improved friction & wear properties Value	Comments
Special Characteristics	Anti-static	

## Contact Songhan Plastic Technology Co.,Ltd.

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