

EMS-Grivory Grivory® TSC-20/4 EC black 9832 PA666-CF20

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-204-EC-black-9832-PA666-CF20.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	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	0.0030 cm/cm	0.0030 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	conditioned; ISO 527-1/-2
	230 MPa	33400 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	10.0 GPa	1450 ksi	conditioned; ISO 527-1/-2
	16.0 GPa	2320 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	6.00 J/cm ²	28.6 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	6.00 J/cm ²	28.6 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	dry; ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	conditioned; ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric N/cm^2	English lb/in^2	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	Conditioned, ISO 1179/1e0

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 $\mu\text{m/m}\cdot\text{°C}$	11.1 $\mu\text{in/in}\cdot\text{°F}$	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 $\mu\text{m/m}\cdot\text{°C}$	50.0 $\mu\text{in/in}\cdot\text{°F}$	ISO 11359-1/-2
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	185 °C	365 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+7 ohm-cm	1.00e+7 ohm-cm	dry; IEC 60093
	1.00e+7 ohm-cm	1.00e+7 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+6 ohm	1.00e+6 ohm	IEC 60093

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	

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