

EMS-Grivory Grivory® TSC-40/4 EC black 9832 PA666-CF40

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-404-EC-black-9832-PA666-CF40.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 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	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	conditioned; ISO 2039-1
	190 MPa	27600 psi	dry; ISO 2039-1
Tensile Strength at Break	200 MPa	29000 psi	conditioned; ISO 527-1/-2
	260 MPa	37700 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	4.0 %	4.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	17.0 GPa	2470 ksi	conditioned; ISO 527-1/-2
	26.0 GPa	3770 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	dry; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	5.00 J/cm ² @Temperature 30.0 °C	23.8 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
Charpy Impact, Notched	5.00 J/cm ² @Temperature 30.0 °C	23.8 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU
	1.00 J/cm ²	4.76 ft-lb/in ²	dry; ISO 179/1eA
	1.60 J/cm ²	7.61 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	0.700 J/cm ²	3.33 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 µm/m-°C	5.56 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	70.0 µm/m-°C	38.9 µin/in-°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	10000 ohm-cm	10000 ohm-cm	dry; IEC 60093
	10000 ohm-cm	10000 ohm-cm	conditioned; IEC 60093
Surface Resistance	100 ohm	100 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	

Descriptive Properties	Tools & Accessories Value	Comments
Processing	Injection Molding	
Product Attributes	Improved friction & wear properties	
Special Characteristics	Anti-static	

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