

EMS-Grivory Grivory® TSG-35/4 W black 9832 PA666-GF35

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, 40% Glass Fiber Reinforced

Material Notes:

Product description: Grilon TSG-35/4 W is a high heat stabilized, normal viscosity PA66 + PA6 injection molding grade with 35% glass fibers, modified for parts with high thermal demands. Grilon TSG-35/4 W has the following important properties: High stiffnessExcellent flow behaviorExcellent oil resistanceVery good processingHigh heat ageing resistanceGood surface finish Application examples are stiff injection molding parts with high resistance against heat ageing such as functional parts in the Automotive Cooling-, Heating-, and Climatic System. Part examples are charged air cooler housings and oil sump housings in the engine compartment.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSG-354-W-black-9832-PA666-GF35.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	115 MPa	16700 psi	conditioned; ISO 2039-1
	220 MPa	31900 psi	dry; ISO 2039-1
Tensile Strength at Break	130 MPa	18900 psi	conditioned; ISO 527-1/-2
	190 MPa	27600 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	7.50 GPa	1090 ksi	conditioned; ISO 527-1/-2
	11.0 GPa	1600 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	6.00 J/cm ² @Temperature 30.0 °C	28.6 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU

Mechanical Properties	Metric ^{lb/cm²}	English ^{lb/in²}	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm²	4.76 ft-lb/in²	dry; ISO 179/1eA
	1.30 J/cm²	6.19 ft-lb/in²	conditioned; ISO 179/1eA
	0.800 J/cm²	3.81 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.800 J/cm²	3.81 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 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	130 - 150 °C	266 - 302 °F	long term; EMS
	230 °C	446 °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	175 °C	347 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	21.0 kV/mm	533 kV/in	conditioned; IEC 60243-1
	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Comparative Tracking Index	500 V	500 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Automotive electr. and electronics, lighting	

Descriptive Properties	Value g and climate control	Comments
	Hydraulic systems	
Electricals & Electronics	Lighting	
Form	Granules	
Industry & Consumer goods	Heating systems	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Sports & Leisure	
Processing	Injection Molding	
Special Characteristics	Improved heat resistance	

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