

EMS-Grivory Grivory® TSG-60/4 W PA666-GF60

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

Material Notes:

Product description: Grilon TSG-60/4 W is a high heat stabilized, normal viscosity PA66 + PA6 injection molding grade with 60% glass fibers, modified for parts with high thermal demands. Grilon TSG-60/4 W has the following important properties: Very high stiffnessGood flow behaviorExcellent oil resistanceEasy processingHigh heat ageing resistance 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-604-W-PA666-GF60.php

Physical Properties	Metric	English	Comments
Density	1.72 g/cc	0.0621 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	1.20 %	1.20 %	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
Ball Indentation Hardness	198 MPa	28700 psi	conditioned; ISO 2039-1
	317 MPa	46000 psi	dry; ISO 2039-1
Tensile Strength at Break	159 MPa	23100 psi	conditioned; ISO 527-1/-2
	242 MPa	35100 psi	dry; ISO 527-1/-2
Elongation at Break	2.2 %	2.2 %	dry; ISO 527-1/-2
	3.6 %	3.6 %	conditioned; ISO 527-1/-2
Tensile Modulus	13.0 GPa	1890 ksi	conditioned; ISO 527-1/-2
	20.0 GPa	2900 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.60 J/cm ²	40.9 ft-lb/in ²	dry; ISO 179/1eU
	9.10 J/cm ²	43.3 ft-lb/in ²	conditioned; ISO 179/1eU
	7.60 J/cm ²	36.2 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.60 J/cm ²	40.9 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	dry; ISO 179/1eU Comments
Charpy Impact, Notched	1.30 J/cm²	6.19 ft-lb/in²	dry; ISO 179/1eA
	1.80 J/cm²	8.57 ft-lb/in²	conditioned; ISO 179/1eA
	1.10 J/cm²	5.23 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.15 J/cm²	5.47 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 µm/m-°C	7.22 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	87.0 µm/m-°C	48.3 µin/in-°F	ISO 11359-1/-2
Melting Point	265 °C	509 °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)	245 °C	473 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	210 °C	410 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Automotive electr. and electronics, lighting	
	Cooling and climate control	
	Hydraulic systems	
Electricals & Electronics	Lighting	
Form	Granules	
Industry & Consumer goods	Heating systems	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Sports & Leisure	

Descriptive Properties	Value	Comments
Special Characteristics	Improved heat resistance	

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