

EMS-Grivory Grivory® TSG-30/4 V0 PA666-GF30 FR

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 30% Glass Fiber Reinforced

Material Notes:

Product description: Grilon TSG-30/4 V0 is a heat stabilized, flame retardant, self-extinguishing engineering thermoplastic, reinforced with glass-fiber 30% (by weight) based on a semi-crystalline Polyamide-66- Polyamide-6-alloy. Grilon TSG-30/4 V0 is halogen-free and free of red phosphorus. The unpigmented material is of light inherent color. Besides its advantageous flame behavior, Grilon TSG-30/4 V0 exhibits high toughness and generally good mechanical properties. RoHS: Grilon TSG-30/4 V0 complies with the regulations acc. RoHS (2002/95/EC, Restriction of Hazardous Substances). WEEE: Parts made of Grilon TSG-30/4 V0 are not affected by the demands for "selective recycling" acc. guideline 2002/96/EC for Electro and Electronic Appliances Grilon TSG-30/4 V0 is particularly suited for technical injection molded parts in the field of Electro and Electronics which require a flammability rating of V-0 acc. UL 94. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSG-304-V0-PA666-GF30-FR.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	ISO 1183
Water Absorption	4.0 %	4.0 %	ISO 62
Moisture Absorption	1.50 %	1.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa	18900 psi	conditioned; ISO 2039-1
	255 MPa	37000 psi	dry; ISO 2039-1
Tensile Strength at Break	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
	150 MPa	21800 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	4.5 %	4.5 %	conditioned; ISO 527-1/-2
Tensile Modulus	6.50 GPa	943 ksi	conditioned; ISO 527-1/-2
	10.5 GPa	1520 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@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	0.950 J/cm ²	4.52 ft-lb/in ²	dry; ISO 179/1eA
	1.40 J/cm ²	6.66 ft-lb/in ²	conditioned; ISO 179/1eA
	0.850 J/cm ²	4.04 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	220 °C	428 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	165 °C	329 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	dry; IEC 60093
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
Burning Behaviour	VDE	
Electricals & Electronics	Cables & Tubes	
	Connectors	

Descriptive Properties	Electrical appliances Value	Comments
	Electrical equipment	
	Energy distribution	
	Lighting	
Form	Granules	
Processing	Injection Molding	
Special Characteristics	Flame retardant	
	Improved UV resistance (outdoor use)	

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