EMS-Grivory Grivory® TS V0 PA666

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Product description: Grilon TS V0 is an unreinforced, normal viscosity, self-extinguishing Polyamid 66 + Polyamide 6 injection molding grade. Grilon TS V0 is halogen free and free of red phosphorous. The unpigmented material has a light inherent color. RoHS: Grilon TS V0 is in compliance with RoHS (2002/95/EC, Restriction of hazardous Substances).WEEE: Parts produced from Grilon TS V0 are not subject to "selective treatment" according the Directive 2002/96/EC on Waste Electrical and Electronic Equipment. Grilon TS V0 has the following important properties: halogen free and free of red phosphorous.UL-94 V0 at 0.4 mm wall thicknessHigh toughnessSuitable for molded Integral hinges Grilon TS V0 is used typically for fuses, strips, cable binders, print terminals and coil former bobbins.Information provided by EMS Grivory

Order this product through the following link:
http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TS-V0-PA666.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in³	ISO 1183
Water Absorption	8.0 %	8.0 %	ISO 62
Moisture Absorption	2.50 %	2.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	75.0 MPa	10900 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	10 %	10 %	dry; ISO 527-1/-2
	10 %	10 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.60 GPa	232 ksi	conditioned; ISO 527-1/-2
	3.60 GPa	522 ksi	dry; ISO 527-1/-2

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	7.50 J/cm²	35.7 ft-lb/in²	dar; ISO 179/1eU
	10.0 J/cm²	47.6 ft-lb/in²	conditioned; ISO 179/1eU
	7.00 J/cm² @Temperature 30.0 °C	33.3 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	dry; ISO 179/1eA
	1.50 J/cm²	7.14 ft-lb/in²	conditioned; ISO 179/1eA
	0.300 J/cm² @Temperature 30.0 °C	1.43 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.300 J/cm² @Temperature 30.0 °C	1.43 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
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
	200 °C	392 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	IEC 60695-11-10
Oxygen Index	35 %	35 %	ISO 4589-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Constant	3.0	3.0	dry; IEC 60250

Electrical Properties	Metric	English	Comments
	@Frequency 100 Hz 3.0 @Frequency 1.00e+6 Hz	@Frequency 100 Hz 3.0 @Frequency 1.00e+6 Hz	dry; IEC 60250
	4.0 @Frequency 1.00e+6 Hz	4.0 @Frequency 1.00e+6 Hz	conditioned; IEC 60250
	8.0 @Frequency 100 Hz	8.0 @Frequency 100 Hz	conditioned; IEC 60250
Dielectric Strength	26.0 kV/mm	660 kV/in	conditioned; IEC 60243-1
	28.0 kV/mm	711 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
Electricals & Electronics	Cables & Tubes	
	Connectors	
	Electrical appliances	
	Electrical equipment	
	Energy distribution	
	Lighting	
Form	Granules	
Processing	Injection Molding	
Special Characteristics	Flame retardant	

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