

EMS-Grivory Grivory® AS V0 PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Product description: Grilon AS V0 is an unreinforced, normal viscosity, self-extinguishing PA66 injection molding grade. Grilon AS V0 has the following important properties: Halogen and phosphorous-freeLight natural colorUL 94 V-0 at 0.75 mm wall thicknessGood electrical properties Grilon AS V0 is used typically for contact plates, plugs, buttons, plug-in terminal strips, switch components.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-AS-V0-PA66.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	55.0 MPa	7980 psi	conditioned; ISO 527-1/-2
	90.0 MPa	13100 psi	dry; ISO 527-1/-2
Elongation at Break	9.0 %	9.0 %	dry; ISO 527-1/-2
	9.0 %	9.0 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
	12 %	12 %	conditioned; ISO 527-1/-2
Tensile Modulus	2.00 GPa	290 ksi	conditioned; ISO 527-1/-2
	3.90 GPa	566 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	dry; ISO 179/1eU
	10.0 J/cm ²	47.6 ft-lb/in ²	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA

Mechanical Properties	0.800 J/cm ² Metric	3.81 ft-lb/in ² English	conditioned; ISO 179/1eA Comments
Thermal Properties			
CTE, linear, Parallel to Flow	60.0 µm/m-°C	33.3 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	90.0 - 110 °C	194 - 230 °F	long term; EMS
	200 °C	392 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °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	32 %	32 %	ISO 4589-1/-2
Electrical Properties			
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 Constant	3.0	3.0	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0	4.0	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	conditioned; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	7.0	7.0	conditioned; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	28.0 kV/mm	711 kV/in	conditioned; IEC 60243-1
	31.0 kV/mm	787 kV/in	dry; IEC 60243-1

Electrical Properties	Metric	English	Comments
Electrical Properties			Comments: 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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