

EMS-Grivory Grivory® AG-25 HM PA66-GF25

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Product description: Grilon AG-25 HM is a heat stabilized, normal viscosity, and adhesion modified PA66 injection molding grade with 25% glass fibers. Grilon AG-25 HM has the following important properties: Excellent adhesion to thermoplastic elastomers High stiffness Good impact strength Application examples: Automotive plugs and seals, counter wheel sensors, housings with integrated switch membranes, housings (hard soft combinations), grip handles, and plug housings. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-AG-25-HM-PA66-GF25.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Water Absorption	2.5 %	2.5 %	ISO 62
Moisture Absorption	1.00 %	1.00 %	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
Tensile Strength at Break	70.0 MPa	10200 psi	conditioned; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	3.0 %	3.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	4.90 GPa	711 ksi	conditioned; ISO 527-1/-2
	6.40 GPa	928 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	dry; ISO 179/1eU
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eU
	3.00 J/cm ²	14.3 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	3.50 J/cm ²	16.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	dry; ISO 179/1eA
			conditioned; ISO 179/1eA

Mechanical Properties	0.900 J/cm² Metric	4.28 ft-lb/in² English	Comments
	0.600 J/cm²	2.86 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.700 J/cm²	3.33 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	40.0 µm/m-°C	22.2 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
	220 °C	428 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	80.0 °C	176 °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	26.0 kV/mm	660 kV/in	conditioned; IEC 60243-1
	27.0 kV/mm	686 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	
	Powertrain and Chassis	
Electricals & Electronics	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Heating systems	

Descriptive Properties	Mechanical Engineering Value	Comments
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	

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