

EMS-Grivory Grivory® AG-35 PA66-GF35

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

Material Notes:

Product description: Grilon AG-35 is a heat stabilized, normal viscosity PA 66 injection molding grade with 35% glass fibers. High stiffness High tensile strength High heat distortion temperature Easy processing Application examples are stressed functional parts such as wheels, electrical bobbins, handles, levers and housings. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-AG-35-PA66-GF35.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	1.50 %	1.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	145 MPa	21000 psi	conditioned; ISO 2039-1
	245 MPa	35500 psi	dry; ISO 2039-1
Tensile Strength at Break	140 MPa	20300 psi	conditioned; ISO 527-1/-2
	200 MPa	29000 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
	5.0 %	5.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	8.50 GPa	1230 ksi	conditioned; ISO 527-1/-2
	12.5 GPa	1810 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	8.50 J/cm ²	40.4 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Charpy Impact, Notched Mechanical Properties	1.00 J/cm² Metric	4.76 ft-lb/in² English	dry; ISO 179/1eA Comments
	1.50 J/cm²	7.14 ft-lb/in²	conditioned; ISO 179/1eA
	1.00 J/cm² @Temperature 30.0 °C	4.76 ft-lb/in² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.00 J/cm² @Temperature 30.0 °C	4.76 ft-lb/in² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 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 - 120 °C	194 - 248 °F	long term; EMS
	200 °C	392 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	165 °C	329 °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	38.0 kV/mm	965 kV/in	conditioned; IEC 60243-1
	41.0 kV/mm	1040 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	

Descriptive Properties	Value	g systems	Comments
		Mechanical Engineering	
		Power transmission	
		Sports & Leisure	
		Tools & Accessories	
Processing		Injection Molding	

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