

EMS-Grivory Grivory® AS/2 PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Product description: Grilon AS/2 is an unreinforced PA66 injection molding grade. Grilon AS/2 has the following important properties: Good flow behavior Easy processing Short cycle times Grilon AS/2 is used typically in applications such as cable ties, clamps, handles, spectacle frames, and furniture components. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-AS2-PA66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	8.0 %	8.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	85.0 MPa	12300 psi	conditioned; ISO 2039-1
	150 MPa	21800 psi	dry; ISO 2039-1
Tensile Strength at Break	80.0 MPa	11600 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	60.0 MPa	8700 psi	conditioned; ISO 527-1/-2
	95.0 MPa	13800 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
	12 %	12 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.70 GPa	247 ksi	conditioned; ISO 527-1/-2
	3.70 GPa	537 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	1.20 J/cm ²	5.71 ft-lb/in ²	conditioned; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 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	80.0 - 100 °C	176 - 212 °F	long term; EMS
	220 °C	428 °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	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	27.0 kV/mm	686 kV/in	conditioned; IEC 60243-1
	29.0 kV/mm	737 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Hydraulic systems	
	Powertrain and Chassis	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Housewares	
	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Nucleated	

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