

EMS-Grivory Grivory® AZ 3/2 PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Product description: Grilon AZ 3/2 is an unreinforced and impact modified PA66 injection molding grade. Grilon AZ 3/2 has the following important properties: Excellent toughness at low temperaturesExcellent toughness dry after molding Low density Grilon AZ 3/2 is a medium viscosity PA 66. Extrusion applications are possible, but Grilon AZ 3/2 is not recommended for extrusion applications, especially for extrudates which have a wall thickness less than 0.8 mm.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-AZ-32-PA66.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 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	0.016 cm/cm	0.016 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	55.0 MPa	7980 psi	conditioned; ISO 2039-1
	95.0 MPa	13800 psi	dry; ISO 2039-1
Tensile Stress	35.0 MPa	5080 psi	conditioned; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Tensile Strength, Yield	45.0 MPa	6530 psi	dry; ISO 527-1/-2
	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	<= 50 %	<= 50 %	dry; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	5.0 %	5.0 %	dry; ISO 527-1/-2
Tensile Modulus	0.700 GPa	102 ksi	conditioned; ISO 527-1/-2
	1.70 GPa	247 ksi	dry; ISO 527-1/-2

Charpy Impact Unnotched Mechanical Properties	NB Metric	NB English	dry; ISO 179/1eU Comments
	NB	NB	conditioned; ISO 179/1eU
	NB @Temperature 30.0 °C	NB @Temperature 86.0 °F	dry; ISO 179/1eU
	NB @Temperature 30.0 °C	NB @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	9.00 J/cm ²	42.8 ft-lb/in ²	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	2.00 J/cm ² @Temperature 30.0 °C	9.52 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	2.00 J/cm ² @Temperature 30.0 °C	9.52 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	150 µm/m-°C	83.3 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	150 µm/m-°C	83.3 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 0.46 MPa (66 psi)	170 °C	338 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °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 Electrical Properties	600 V Metric	600 V English	conditioned; IEC 60112 Comments
Descriptive Properties	Value		Comments
Automotive	Powertrain and Chassis		
Electricals & Electronics	Connectors		
	Electrical appliances		
Form	Granules		
Industry & Consumer goods	Housewares		
	Mechanical Engineering		
	Sports & Leisure		
	Tools & Accessories		
Processing	Injection Molding		
Product Attributes	Improved friction & wear properties		
Special Characteristics	Flame retardant		
	High impact or impact modified		

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