

## EMS-Grivory Grivory® AZ 3 PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Product description: Grilon AZ 3 is a normal viscosity, high impact modified PA66 injection molding grade. Grilon AZ 3 has the following important properties: Excellent toughness at low temperaturesExcellent toughness dry after moldingEasy processingLow density Grilon AZ 3 is used typically for safety applications. Applications are impact resistant parts for mechanical engineering and automotive applications such as clamps.Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-AZ-3-PA66.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-AZ-3-PA66.php)

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in <sup>3</sup>	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 Strength at Break	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	30.0 MPa	4350 psi	dry; ISO 527-1/-2
	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Elongation at Break	45 %	45 %	dry; ISO 527-1/-2
	45 %	45 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.700 GPa	102 ksi	conditioned; ISO 527-1/-2
	1.80 GPa	261 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 µm/m-°C	72.2 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)	180 °C	356 °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+12 ohm-cm	1.00e+12 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	28.0 kV/mm	711 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	Powertrain and Chassis	
Electricals & Electronics	Connectors	
	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China