

EMS-Grivory Grivory® BS EC PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon BS 23 is an unreinforced, low viscosity and fine crystalline PA 6 injection molding grade. Grilon BS 23 has the following important properties: Good flow behavior Easy processing Short cycle times Grilon BS 23 is suitable for thin wall applications, where excellent flow behavior and short cycle times are a must. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BS-EC-PA6.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ISO 1183
Water Absorption	9.0 %	9.0 %	ISO 62
Moisture Absorption	3.00 %	3.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	60.0 MPa	8700 psi	conditioned; ISO 2039-1
	130 MPa	18900 psi	dry; ISO 2039-1
Tensile Strength at Break	45.0 MPa	6530 psi	conditioned; ISO 527-1/-2
	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	70.0 MPa	10200 psi	dry; ISO 527-1/-2
Elongation at Break	20 %	20 %	dry; ISO 527-1/-2
	20 %	20 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	35 %	35 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.00 GPa	145 ksi	conditioned; ISO 527-1/-2
	3.00 GPa	435 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.50 J/cm ²	35.7 ft-lb/in ²	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	4.50 J/cm ²	21.4 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eA
	0.800 J/cm ²	3.81 ft-lb/in ²	conditioned; ISO 179/1eA
	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.300 J/cm ²	1.43 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	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-1/-2
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	70.0 - 90.0 °C	158 - 194 °F	long term; EMS
	140 °C	284 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	60.0 °C	140 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	dry; IEC 60093
	1.00e+8 ohm-cm	1.00e+8 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+7 ohm	1.00e+7 ohm	IEC 60093
Dielectric Strength	5.00 kV/mm	127 kV/in	conditioned; IEC 60243-1

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	

Descriptive Properties Electricals & Electronics	Value Mechanical equipment	Comments
Form	Granules	
Industry & Consumer goods	Mechanical Engineering	
	Power transmission	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Nucleated	
Special Characteristics	Anti-static	

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