

EMS-Grivory Grivory® BR 40 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon BR 40 is a medium viscosity, unreinforced, heat stabilized PA6 grade for injection moulding and extrusion applications. Grilon BR 40 has the following important properties: High stiffness Good chemical resistance Grilon BR 40 is used typically for stiff fuel tubes or wheels and rolls. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BR-40-PA6.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 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	0.0080 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	60.0 MPa	8700 psi	conditioned; ISO 2039-1
	140 MPa	20300 psi	dry; ISO 2039-1
Tensile Strength at Break	60.0 MPa	8700 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	90.0 MPa	13100 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
	25 %	25 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.900 GPa	131 ksi	conditioned; ISO 527-1/-2
	3.30 GPa	479 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	0.600 J/cm ²	2.86 ft-lb/in ²	dry; ISO 179/1eA
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eA
	0.400 J/cm ²	1.90 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 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	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	160 °C	320 °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)	55.0 °C	131 °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	28.0 kV/mm	711 kV/in	conditioned; IEC 60243-1
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Fuel systems	
	Hydraulic systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
	Tools & Accessories	
Processing	Injection Molding	
	Other Extrusion	
Product Attributes	High viscosity	

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