

EMS-Grivory Grivory® BR 40 W PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon BR 40 W is a medium viscosity, plasticized PA6 extrusion grade. Grilon BR 40 W has the following important properties: High flexibility High stiffness Grilon BR 40 W is used typically for extrusion applications such as flexible tubes. Information provided by EMS Grivory

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Water Absorption	8.0 %	8.0 %	ISO 62
Moisture Absorption	2.50 %	2.50 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	30.0 MPa	4350 psi	conditioned; ISO 2039-1
	55.0 MPa	7980 psi	dry; ISO 2039-1
Tensile Strength, Yield	30.0 MPa	4350 psi	dry; ISO 527-1/-2
	40.0 MPa	5800 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	<= 50 %	<= 50 %	dry; ISO 527-1/-2
Elongation at Yield	35 %	35 %	dry; ISO 527-1/-2
	40 %	40 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.500 GPa	72.5 ksi	conditioned; ISO 527-1/-2
	1.30 GPa	189 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	dry; 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 Mechanical Properties	1.50 J/cm ² Metric	7.14 ft-lb/in ² English	dry; ISO 179/1eA Comments
	NB	NB	conditioned; ISO 179/1eA
	0.300 J/cm ² @Temperature 30.0 °C	1.43 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	0.300 J/cm ² @Temperature 30.0 °C	1.43 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	70.0 - 90.0 °C	158 - 194 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °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+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	22.0 kV/mm	559 kV/in	conditioned; IEC 60243-1
	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Comparative Tracking Index	450 V	450 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Additives	Plasticizer	
Automotive	Air intake systems	
	Fuel systems	
	Hydraulic systems	

Descriptive Properties Electricals & Electronics	Value Cables & Tubes	Comments
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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