

EMS-Grivory Grivory® BRZ 247 W PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon BRZ 247 W is a heat stabilized, high viscosity, impact modified and plasticized PA6 extrusion grade. Grilon BRZ 247 W has the following important properties: High flexibility Good impact strength even at low temperatures Grilon BRZ 247 W is used typically for coextruded fuel lines, coolant pipes in deep freezer units, vulcanization mandrels, and vacuum lines. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BRZ-247-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	25.0 MPa	3630 psi	conditioned; ISO 2039-1
	35.0 MPa	5080 psi	dry; ISO 2039-1
Tensile Stress	25.0 MPa	3630 psi	conditioned; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	30.0 MPa	4350 psi	dry; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.380 GPa	55.1 ksi	conditioned; ISO 527-1/-2
	0.650 GPa	94.3 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	

Mechanical Properties	Metric	English	Comments
	NB	NB	conditioned; ISO 179/1eA
	0.700 J/cm²	3.33 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.00 J/cm²	4.76 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C	77.8 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	215 °C	419 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	40.0 °C	104 °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	29.0 kV/mm	737 kV/in	conditioned; IEC 60243-1
	31.0 kV/mm	787 kV/in	dry; IEC 60243-1
Comparative Tracking Index	500 V	500 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Additives	Plasticizer	
Automotive	Air intake sytems	
	Cooling and climate control	

Electricals & Electronics Descriptive Properties	Cables & Tubes Value	Comments
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Power transmission	
Processing	Other Extrusion	
Product Attributes	Flexible	
Special Characteristics	High impact or impact modified	

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