

## EMS-Grivory Grivory® BRZ 347 W PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Product description: Grilon BRZ 347 W is a heat stabilized, high viscosity, impact modified and plasticized PA6 extrusion grade. Grilon BRZ 347 W has the following important properties: High flexibility Low fuel and freon permeability Excellent impact strength even at low temperatures Grilon BRZ 347 W is used typically for extruded and co-extruded tubes for fuel, freon and coolants. Information provided by EMS Grivory

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EMS-Grivory-Grivory-BRZ-347-W-PA6.php](http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BRZ-347-W-PA6.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	2.50 %	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 %	
Elongation at Break	30.0 MPa	4350 psi	dry; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Tensile Modulus	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	0.350 GPa	50.8 ksi	conditioned; ISO 527-1/-2
	0.600 GPa	87.0 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact Unnotched	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
	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.50 J/cm <sup>2</sup>	7.14 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	150 µm/m-°C	83.3 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	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)	80.0 °C	176 °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
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Additives	Plasticizer	
Automotive	Air intake sytems	
	Cooling and climate control	
Electricals & Electronics	Cables & Tubes	
Form	Granules	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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