

Grilon® BRZ 347 W

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BRZ 347 W is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America for extrusion.

Important attributes of Grilon® BRZ 347 W are:

Flame Rated

RoHS Compliant

Plasticized

Good Flexibility

Impact Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Engineering/Industrial Parts

Hose/Tubing

Wire & Cable

General Information				
Additive	Plasticizer			
Features	Good Flexibility			
	High Impact Resistance			
	Plasticized			
Uses	Automotive Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Hydraulic Applications			
	Pneumatic Applications			
	Tubing			
	Wire & Cable Applications			
RoHS Compliance	RoHS Compliant			
Forms	Granules			
Processing Method	Extrusion			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	

Equilibrium, 23°C, 50% RH	2.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	35.0	25.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	600	350	MPa	ISO 527-2
Tensile Stress (50% Strain)	30.0	25.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	15	kJ/m ²	
23°C	110 kJ/m ²	No Break		
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	80.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	40.0	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	80 to 110	--	°C	
Short Term	150	--	°C	
ISO Type	PA6-HIP, GHL, 32-005	--		ISO 1874
Melting Temperature ¹	215	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-4	--	cm/cm/°C	
Transverse	1.6E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+14	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT