

Grilon® BRZ 247 W

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BRZ 247 W is a Polyamide 6 (Nylon 6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of Grilon® BRZ 247 W are:

- Flame Rated
- RoHS Compliant
- Plasticized
- Good Flexibility
- High Viscosity
- Typical applications include:
 - Automotive
 - Consumer Goods
 - Electrical/Electronic Applications
 - Engineering/Industrial Parts
 - Hose/Tubing

General Information	
Additive	Impact Modifier Plasticizer
Features	Good Flexibility High Viscosity Impact Modified Plasticized
Uses	Automotive Applications Consumer Applications Electrical/Electronic Applications Engineering Parts Hydraulic Applications Industrial 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) Shear Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.12	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	650	380	MPa	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	10	kJ/m ²	
23°C	120 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	75.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	40.0	--	°C	ISO 75-2/A
Melting Temperature ¹	215	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.4E-4	--	cm/cm/°C	
Transverse	1.5E-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
Electric Strength	31	29	kV/mm	IEC 60243-1
Comparative Tracking Index	--	500	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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