

Grilon® BZ 1

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BZ 1 is a Polyamide 6 (Nylon 6) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® BZ 1 are:

Flame Rated

RoHS Compliant

Impact Modified

Typical applications include:

Automotive

Electrical/Electronic Applications

Consumer Goods

Engineering/Industrial Parts

Household Applications

General Information				
Additive	Impact Modifier			
Features	Impact Modified			
Uses	Automotive Applications Automotive Interior Parts Connectors Consumer Applications Electrical/Electronic Applications Engineering Parts Household Goods Industrial Applications Power/Other Tools Sporting Goods			
RoHS Compliance	RoHS Compliant			
Forms	Granules			
Processing Method	Injection Molding			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1) Shear Modulus vs. Temperature (ISO 11403-1) Viscosity vs. Shear Rate (ISO 11403-2)			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.1	--	%	

Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	110	50.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	900	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	15	%	ISO 527-2
Nominal Tensile Strain at Break	25	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	5.0	kJ/m ²	
23°C	10	30	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	70.0 to 90.0	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	9.0E-5	--	cm/cm/°C	
Transverse	1.2E-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+12	ohms·cm	IEC 60093
Electric Strength	33	30	kV/mm	IEC 60243-1
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA 6-Hi, MHR, 14-020N	--		ISO 1874
NOTE				
1.	Long Term			

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|----|------------|
| 2. | Short Term |
| 3. | 10°C/min |
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