

Grilon® BS

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BS 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® BS are:

- Flame Rated
- RoHS Compliant
- Good Aesthetics
- Nucleated

Typical applications include:

- Automotive
- Appliances
- Consumer Goods
- Electrical/Electronic Applications
- Engineering/Industrial Parts

General Information				
UL YellowCard		E53898-592179		
Additive		Nucleating Agent		
Features		Good Surface Finish		
		Nucleated		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Interior Parts		
		Consumer Applications		
		Electrical/Electronic Applications		
		Engineering Parts		
		Household Goods		
		Industrial Applications		
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)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method

Density	1.13	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	1.0	--	%	
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	120	55.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1000	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	15	%	ISO 527-2
Nominal Tensile Strain at Break	15	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	4.0	kJ/m ²	
23°C	5.0	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	175	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Continuous Use Temperature				Internal Method
-- ¹	70.0 to 90.0	--	°C	
-- ²	180	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+11	ohms·cm	IEC 60093
Electric Strength	30	27	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, MHR, 14-030N	--	ISO 1874
NOTE			
1.	Long Term		
2.	Short Term		
3.	10°C/min		

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