

Grilon® BS/2

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BS/2 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/2 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		E53898-243876		E132701-237879
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		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)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method

Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
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	140	60.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1100	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	90.0	45.0	MPa	
Break	70.0	55.0	MPa	
Tensile Strain (Yield)	3.0	15	%	ISO 527-2
Nominal Tensile Strain at Break	5.0	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	3.0	kJ/m ²	
23°C	4.0	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	30 kJ/m ²		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	170	--	°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	180	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	
Transverse	1.0E-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	30	28	kV/mm	IEC 60243-1

Comparative Tracking Index	--	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, MR, 18-030 N	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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