

Grilon® BS V0

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BS V0 is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Grilon® BS V0 are:

Flame Rated

RoHS Compliant

Flame Retardant

Nucleated

Typical applications include:

Automotive

Electrical/Electronic Applications

Appliances

Hose/Tubing

Lighting Applications

General Information				
UL YellowCard		E53898-243875	E132701-237884	
Additive		Flame Retardant		
		Nucleating Agent		
Features		Flame Retardant		
		Nucleated		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Electronics		
		Connectors		
		Electrical/Electronic Applications		
		Lighting Applications		
		Tubing		
		Wire & Cable 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)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4

Across Flow	0.90	--	%	
Flow	0.80	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3700	1200	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	90.0	45.0	MPa	
Break	70.0	55.0	MPa	
Tensile Strain				ISO 527-2
Yield	3.0	15	%	
Break	4.0	> 50	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	15	kJ/m ²	ISO 179/1eA
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	170	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	180	--	°C	
ISO Type	PA6, MFHR, 14-040N	--		ISO 1874
Melting Temperature ¹	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	7.0E-5	--	cm/cm/°C	
Transverse	9.0E-5	--	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	32	29	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.00	8.00		
1 MHz	4.00	4.00		
Dissipation Factor				IEC 60250
100 Hz	3.0E-3	0.10		
1 MHz	0.020	0.085		

Comparative Tracking Index	--	575	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	V-0	--		
3.20 mm	V-0	--		
Oxygen Index	32	--	%	ISO 4589-2
NOTE				
1.	10°C/min			

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