

Grilon® BG-15

Polyamide 6

EMS-GRIVORY

Message:

Grilon® BG-15 is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilon® BG-15 are:

Flame Rated

RoHS Compliant

Typical applications include:

Automotive

Appliances

Electrical/Electronic Applications

General Information				
UL YellowCard		E53898-592176		
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Uses		Appliance Components		
		Automotive Applications		
		Automotive Interior Parts		
		Electrical/Electronic Applications		
RoHS Compliance		RoHS Compliant		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	170	80.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6700	3400	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	80.0	MPa	
Break	140	--	MPa	
Tensile Strain				ISO 527-2
Yield	--	5.0	%	

Break	4.0	--	%	
Nominal Tensile Strain at Break	--	15	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	5.0	kJ/m ²	
23°C	5.0	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	45	kJ/m ²	
23°C	45	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	195	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	60.0	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	80.0 to 110	--	°C	
-- ²	160	--	°C	
Melting Temperature ³	222	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	5.0E-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+13	ohms·cm	IEC 60093
Electric Strength	40	37	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
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA6, MHR, 14-070N, GF15	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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