

Grilon® EBV-15H Black 9697

Polyamide 6
EMS-GRIVORY

Message:

Grilon® EBV-15H Black 9697 is a Polyamide 6 (Nylon 6) material filled with 15% glass fiber. It is available in Asia Pacific, Europe, or North America for blow molding or extrusion.

Important attributes of Grilon® EBV-15H Black 9697 are:

Flame Rated

RoHS Compliant

Heat Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Hose/Tubing

Wire & Cable

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		High Heat Resistance		
Uses		Automotive Applications		
		Blow Molding Applications		
		Electrical/Electronic Applications		
		Hydraulic Applications		
		Pneumatic Applications		
		Tubing		
		Wire & Cable Applications		
RoHS Compliance		RoHS Compliant		
Appearance		Black		
Forms		Granules		
Processing Method		Blow Molding		
		Extrusion		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.21	--	g/cm³	ISO 1183
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	145	70.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5600	2700	MPa	ISO 527-2
Tensile Stress (Break)	110	65.0	MPa	ISO 527-2

Tensile Strain (Break)	5.0	25	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	8.0	kJ/m ²	
23°C	15	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	80	kJ/m ²	
23°C	80 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	165	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	50.0	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	100 to 120	--	°C	
Short Term	180	--	°C	
ISO Type	PA 6-HI, BH, 27-060, GF15	--		ISO 1874
Melting Temperature ¹	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+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+11	ohms·cm	IEC 60093
Electric Strength	26	22	kV/mm	IEC 60243-1
Comparative Tracking Index	--	325	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
NOTE				
1.	10°C/min			

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