

Grilamid® 1SBVX-50H LDS black

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® 1SBVX-50H LDS black is a Polyamide 1010 (Nylon 1010) material filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America for injection molding.

Important attributes of Grilamid® 1SBVX-50H LDS black are:

Flame Rated

High Flow

Impact Modified

Impact Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Medical/Healthcare

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Impact Modifier		
Features		High Flow		
		High Impact Resistance		
		Impact Modified		
		Light Stabilized		
Uses		Automotive Applications		
		Automotive Electronics		
		Cell Phones		
		Medical/Healthcare Applications		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.58	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	1.7	--	%	
Equilibrium, 23°C, 50% RH	0.90	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	205	180	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus	13500	12000	MPa	ISO 527-2
Tensile Stress (Break)	145	120	MPa	ISO 527-2
Tensile Strain (Break)	1.9	2.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	6.0	kJ/m²	
23°C	10	10	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	45	kJ/m²	
23°C	50	50	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	175	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	125	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- ¹	90.0 to 110	--	°C	
-- ²	150	--	°C	
Melting Temperature ³	200	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+11	1.0E+11	ohms·cm	IEC 60093
Electric Strength	39	37	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	PA1010 + X, MH, 16-140, GF 50-			ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

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