

Grilamid® 1SBVX-30H LDS black

Polyamide 1010

EMS-GRIVORY

Message:

Grilamid® 1SBVX-30H LDS black is a Polyamide 1010 (Nylon 1010) material filled with 30% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of Grilamid® 1SBVX-30H LDS black are:

Flame Rated

Eco-Friendly/Green

Good Mold Release

Impact Resistant

Typical applications include:

Automotive

Electrical/Electronic Applications

Lighting Applications

Medical/Healthcare

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Flow		
		Good Mold Release		
		High Impact Resistance		
		Platable		
		Renewable Resource Content		
Uses		Automotive Applications		
		Automotive Electronics		
		Cell Phones		
		Electrical/Electronic Applications		
		Lighting Applications		
		Medical/Healthcare Applications		
Appearance		Black		
Forms		Granules		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	2.3	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	170	150	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	10000	MPa	ISO 527-2
Tensile Stress (Break)	115	110	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	6.0	kJ/m ²	
23°C	8.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	40	kJ/m ²	
23°C	40	40	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	165	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	110	--	°C	ISO 75-2/C
Maximum Use Temperature				Internal Method
Long Term	90 to 110	--	°C	
Short Term	150	--	°C	
ISO Type	PA1010 + X, MH, 16-110, GF 30-			ISO 1874
Melting Temperature ¹	200	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	3.0E-5	--	cm/cm/°C	
Transverse	7.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+12	1.0E+12	ohms·cm	IEC 60093
Electric Strength	40	40	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
NOTE				
1.	10°C/min			

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