

SCHULAMID® XM GF 50 BLACK

Polyamide 66 + PA 6I/6T

A. Schulman Europe

Message:

50% glassfiber reinforced semi-aromatic Polyamide Compound with excellent rigity and strength, also if conditioned. Able for Substitution Die Cast Metal.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA 66 + PA 6I/6T		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183/A
Water Absorption				ISO 62
Saturation, 23°C	3.5 to 4.0	--	%	
Equilibrium, 23°C, 50% RH	1.1	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 931/30)	290	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17500	16500	MPa	ISO 527-2/1
Tensile Stress (Break)	250	220	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	3.0	%	ISO 527-2/5
Flexural Modulus	16400	--	MPa	ISO 178
Flexural Stress ¹	380	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				
-30°C	15	--	kJ/m ²	ISO 179/1eC
23°C	17	17	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	--	kJ/m ²	
23°C	110	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	245	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	225	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (1.00 mm)	< 100	--	mm/min	ISO 3795
Flame Rating (0.800 mm)	HB	--		UL 94, IEC 60695-11-10, -20
NOTE				
1.	2.0 mm/min			

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