

SCHULAMID® 6 GF 50 TSU

Polyamide 6

A. Schulman Europe

Message:

50% glass fiber reinforced, surface improved Polyamide 6

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6 GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.62	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	23.5	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	18000	10000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	170	95.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.4	3.2	%	ISO 527-2/1A/5
Flexural Modulus	14800	--	MPa	ISO 178
Flexural Stress	235	--	MPa	ISO 178
Flexural Strain at Flexural Strength	1.9	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.2	--	kJ/m ²	
23°C	6.0	9.5	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	35	--	kJ/m ²	
23°C	40	48	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	217	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	202	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	202	--	°C	ISO 306/A50
--	207	--	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method

Comparative Tracking Index	275	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	31	--	mm/min	ISO 3795
Flame Rating				UL 94, IEC 60695-11-10, -20
1.60 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	725	--	°C	
3.00 mm	725	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	750	--	°C	
3.00 mm	750	--	°C	

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