

SCHULAMID® 612 GF 50 H

Polyamide 612
A. Schulman Europe

Message:
50% glass fiber reinforced Polyamid 612 compound, heat stabilised

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.54	--	g/cm ³	ISO 1183/A
Water Absorption (Equilibrium, 23°C, 50% RH)				
	1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	12000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	200	145	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	2.5	%	ISO 527-2/1A/5
Flexural Modulus ¹ (23°C)	15000	--	MPa	ISO 178
Flexural Stress ² (23°C)	300	--	MPa	ISO 178
Flexural Strain at Flexural Strength (23°C)				
	2.5	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	--	kJ/m ²	
23°C	13	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	64	--	kJ/m ²	
23°C	70	72	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	218	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	216	--	°C	ISO 306/A50
--	208	--	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method

Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	50	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	725	--	°C	
3.00 mm	800	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	750	--	°C	
3.00 mm	825	--	°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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