

SCHULAMID® 612 GF 30 H

Polyamide 612

A. Schulman Europe

Message:

30% glass fiber reinforced, Polyamide 612 compound, heat stabilized

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.30	--	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (245°C/5.0 kg)	20.0	--	cm ³ /10min	ISO 1133
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	6600	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	140	100	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.3	6.0	%	ISO 527-2/1A/5
Flexural Modulus ¹ (23°C)	7500	--	MPa	ISO 178
Flexural Stress ² (4.0% strain, 23°C)	220	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	5.0	--	kJ/m ²	ISO 179/1eA
-30°C	6.0	--	kJ/m ²	ISO 179/1eA
23°C	8.0	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	50	--	kJ/m ²	ISO 179/1eU
-30°C	50	--	kJ/m ²	ISO 179/1eU
23°C	60	65	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	211	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	191	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	214	--	°C	ISO 306/A50
--	204	--	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	2.3E+13	--	ohms	IEC 60093

Volume Resistivity	2.8E+14	--	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	< 100	--	mm/min	ISO 3795
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	675	--	°C	IEC 60695-2-12
3.00 mm	675	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	700	--	°C	IEC 60695-2-13
3.00 mm	700	--	°C	IEC 60695-2-13

Additional Information

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1.)

Not for use in food contact applications2.)

Not for use in medical or pharmaceutical applications

NOTE

1. 2.0 mm/min

2. 2.0 mm/min

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