

SCHULAMID® 612 GF 30 HI

Polyamide 612

A. Schulman Europe

Message:

30% glass fiber reinforced and impact modified Polyamide 612

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Fuel Resistant		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Dimensional Stability		
	High Impact Resistance		
	Low Temperature Toughness		
	Low to No Water Absorption		
	Oil Resistant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	120	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	%	ISO 527-2/1A/5
Flexural Modulus ¹ (23°C)	6000	MPa	ISO 178
Flexural Stress ² (23°C)	150	MPa	ISO 178
Flexural Strain at Flexural Strength (23°C)	3.20		ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m ²	
23°C	15	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m ²	
23°C	60	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	195	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	185	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	210	°C	ISO 306/A50

--	165	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	< 100	mm/min	ISO 3795
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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