

SCHULAMID® 66 GF 30 HE LW

Polyamide 66

A. Schulman Europe

Message:

30% glass fiber reinforced and heat stabilized polyamide 66-compound, electrical neutral, transparent for laser light of laser welding processes

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183/A
Viscosity Number	160	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9800	5800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	180	96.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	8.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	8200	--	MPa	ISO 178
Flexural Stress ²	270	--	MPa	ISO 178
Flexural Strain at Flexural Strength	4.5	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	--	kJ/m ²	
23°C	12	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	
23°C	85	78	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	> 250	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/Af
Vicat Softening Temperature	> 250	--	°C	ISO 306/A50, ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	15	--	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	650	--	°C	
3.00 mm	675	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	675	--	°C	
3.00 mm	700	--	°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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