

SCHULAMID® 66 GF 50 H

Polyamide 66
A. Schulman Europe

Message:
50% glass fiber reinforced, heat stabilized Polyamide 66

General Information				
UL YellowCard		E86615-252187	E188844-102210972	
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		Good Crack Resistance		
		Good Heat Aging Resistance		
		Good Processability		
		Good Toughness		
		Low Moisture Absorption		
		Medium Viscosity		
		Oil Resistant		
		Ultra High Stiffness		
UL File Number		E86615		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183/A
Water Absorption (23°C, 24 hr)	1.2	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	300	220	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16500	13000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	228	180	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.3	3.3	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	
23°C	14	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	
23°C	90	94	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	> 250	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
	> 250	--	°C	ISO 306/A50, ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index				
	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
3.00 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	--	600	°C	
3.00 mm	--	600	°C	

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