

SCHULAMID® 66 GF 25 FR 5 A

Polyamide 66

A. Schulman Europe

Message:

25% glass fibre reinforced flame-retardant Polyamide 66 grade; without PBDE and antimony trioxide

General Information				
UL YellowCard		E86615-100135700	E188844-102210968	
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Antimony Free		
		Flame Retardant		
		Good Electrical Properties		
		Good Strength		
UL File Number		E86615		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10300	8000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	146	112	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.2	3.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	8600	--	MPa	ISO 178
Flexural Stress ² (2.9% Strain)	195	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	10	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	52	--	kJ/m ²	
23°C	52	55	kJ/m ²	
Notched Izod Impact Strength (23°C)	8.5	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	46	--	kJ/m ²	ISO 180/1U
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
Ball Pressure Test (200°C)	Pass	--		IEC 60695-10-2
RTI Elec				UL 746
0.500 mm	130	--	°C	
0.750 mm	130	--	°C	
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	
RTI Imp				UL 746
0.500 mm	105	--	°C	
0.750 mm	105	--	°C	
1.50 mm	110	--	°C	
3.00 mm	110	--	°C	
RTI Str				UL 746
0.500 mm	105	--	°C	
0.750 mm	105	--	°C	
1.50 mm	120	--	°C	
3.00 mm	120	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	4.7E+14	1.4E+13	ohms	IEC 60093
Volume Resistivity	2.7E+14	1.8E+13	ohms·cm	IEC 60093
Comparative Tracking Index	400	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.500 mm	PLC 0	--		
0.750 mm	PLC 0	--		
1.50 mm	PLC 0	--		
3.00 mm	PLC 0	--		
Hot-wire Ignition (HWI)				UL 746
0.500 mm	PLC 0	--		
0.750 mm	PLC 0	--		
1.50 mm	PLC 0	--		
3.00 mm	PLC 0	--		
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				ISO 3795
0.500 mm, Self-Extinguishing	0.0	--	mm/min	
0.750 mm, Self-Extinguishing	0.0	--	mm/min	
1.50 mm, Self-Extinguishing	0.0	--	mm/min	
3.00 mm, Self-Extinguishing	0.0	--	mm/min	

Flame Rating				UL 94, IEC 60695-11-10, -20
0.500 mm	V-0	--		
0.750 mm	V-0	--		
	V-0			
1.50 mm	5VA	--		
	V-0			
3.00 mm	5VA	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.500 mm	960	--	°C	
0.750 mm	960	--	°C	
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.500 mm	900	--	°C	
0.750 mm	900	--	°C	
1.50 mm	900	--	°C	
3.00 mm	930	--	°C	
Oxygen Index	34	--	%	ISO 4589-2
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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