

SCHULAMID® 6 GF 30 FR 4

Polyamide 6

A. Schulman Europe

Message:

30% glass fibre reinforced flame-retardant halogenated Polyamide 6 grade; without PBDE

General Information				
UL YellowCard		E86615-252156	E188844-102210957	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Flame Retardant		
		Good Strength		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-GF FR()		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	200	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	6800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	155	107	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.5	5.2	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m²	
23°C	10	13	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	58	--	kJ/m²	
23°C	65	74	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	216	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	202	--	°C	ISO 75-2/Af
Ball Pressure Test (200°C)	Pass	--		IEC 60695-10-2
RTI Elec				UL 746

0.750 mm	65.0	--	°C	
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
RTI Imp				UL 746
0.750 mm	65.0	--	°C	
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
RTI Str				UL 746
0.750 mm	65.0	--	°C	
1.50 mm	65.0	--	°C	
3.00 mm	65.0	--	°C	
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	250	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.750 mm	PLC 0	--		
1.50 mm	PLC 0	--		
3.00 mm	PLC 0	--		
Hot-wire Ignition (HWI)				UL 746
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
0.750 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
0.750 mm	V-0	--		
1.50 mm	V-0	--		
3.00 mm	V-0	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.750 mm	960	--	°C	
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13

0.750 mm	825	--	°C	
1.50 mm	825	--	°C	
3.00 mm	825	--	°C	
Oxygen Index	30	--	%	ISO 4589-2

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

