

SCHULAMID® 6 GF 15 FR 4 K1681

Polyamide 6
A. Schulman Europe

Message:
15% glass fibre reinforced flame-retardant Polyamide 6 grade without PBDE

General Information				
UL YellowCard		E188844-102210954		
Filler / Reinforcement		Glass Fiber, 15% Filler by Weight		
Features		Flame Retardant		
UL File Number		E86615		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /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	7100	4000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	117	71.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	8.5	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	7.0	14	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	--	kJ/m ²	
23°C	60	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	223	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	203	--	°C	ISO 75-2/Af
Ball Pressure Test (200°C)	Pass	--		IEC 60695-10-2
RTI Elec				UL 746
0.380 mm	130	--	°C	
0.750 mm	130	--	°C	
1.50 mm	130	--	°C	

3.00 mm	130	--	°C	
RTI Imp				UL 746
0.380 mm	90.0	--	°C	
0.750 mm	100	--	°C	
1.50 mm	100	--	°C	
3.00 mm	100	--	°C	
RTI Str				UL 746
0.380 mm	100	--	°C	
0.750 mm	110	--	°C	
1.50 mm	120	--	°C	
3.00 mm	120	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	--	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index	275	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.380 mm	PLC 0	--		
0.750 mm	PLC 0	--		
1.50 mm	PLC 0	--		
3.00 mm	PLC 0	--		
Hot-wire Ignition (HWI)				UL 746
0.380 mm	PLC 3	--		
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
0.380 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
0.380 mm	V-2	--		
0.750 mm	V-2	--		
1.50 mm	V-2	--		
3.00 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12

0.380 mm	850	--	°C	
0.750 mm	960	--	°C	
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.380 mm	825	--	°C	
0.750 mm	900	--	°C	
1.50 mm	900	--	°C	
3.00 mm	900	--	°C	
Oxygen Index	26	--	%	ISO 4589-2

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