

SCHULAMID® 6 GF 7 FR 4 K1681

Polyamide 6
A. Schulman Europe

Message:

7% glass fibre reinforced flame retardant PA-6 grade; incandescent wire test without flame; without PBDE; GWIT > 800°C

General Information			
UL YellowCard	E188844-102210962		
Filler / Reinforcement	Glass Fiber,7.0% Filler by Weight		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.4	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	
23°C	3.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	30	kJ/m ²	
23°C	35	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	208	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	170	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	218	°C	ISO 306/A120
--	205	°C	ISO 306/B50
Ball Pressure Test (200°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Comparative Tracking Index	275	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.380 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	850	°C	
1.50 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.380 mm	825	°C	
0.750 mm	825	°C	
1.50 mm	850	°C	
Oxygen Index	23	%	ISO 4589-2

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