

SCHULAMID® 6 GF 30 FR 2

Polyamide 6
A. Schulman Europe

Message:
30% glass fibre reinforced flame-retardant Polyamide 6 grade; halogen free

General Information			
UL YellowCard	E86615-319571		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
UL File Number	E86615		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183/A
Viscosity Number	145	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11100	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	160	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	12	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	60	kJ/m ²	
23°C	80	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	204	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	212	°C	ISO 306/A50
--	203	°C	ISO 306/B50
Ball Pressure Test (200°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	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	
Flammability Classification			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	750	°C	
1.50 mm	750	°C	
3.00 mm	750	°C	
Oxygen Index	32	%	ISO 4589-2

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