

SCHULAMID® 6 GF 25 FR

Polyamide 6
A. Schulman Europe

Message:
25% glass fibre reinforced flame-retardant Polyamide 6 grade (V-2); without PBDE

General Information				
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Flame Retardant		
		Good Electrical Properties		
		Halogen Free		
		Low (to None) Phosphorus Content		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6700	2800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	91.0	44.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	21	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	3.0	kJ/m ²	
23°C	3.5	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	27	--	kJ/m ²	
23°C	30 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	203	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	125	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	216	--	°C	ISO 306/A50
--	204	--	°C	ISO 306/B50
Ball Pressure Test (200°C)	Pass	--		IEC 60695-10-2
Electrical	Dry	Conditioned	Unit	Test Method

Comparative Tracking Index	525	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate				ISO 3795
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
1.50 mm	V-2	--		
3.00 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	700	--	°C	
3.00 mm	700	--	°C	
Oxygen Index	24	--	%	ISO 4589-2

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