

SCHULAMID® 6 GF 25

Polyamide 6
A. Schulman Europe

Message:
25% glass fibre reinforced Polyamide 6

General Information				
UL YellowCard		E86615-252153		
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Features		Good Stiffness		
		Medium Viscosity		
		Oil Resistant		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-GF25		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183/A
Water Absorption (Saturation, 23°C)	1.9	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8500	4800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	152	90.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	7.5	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	--	kJ/m ²	
23°C	10	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	55	--	kJ/m ²	
23°C	65 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	218	--	°C	ISO 306/A50

--	210	--	°C	ISO 306/B50
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	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
3.00 mm	HB	--		
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	--	650	°C	
3.00 mm	--	650	°C	

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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

