

SCHULAMID® 6 GF 15 FR 4 K1681 DEEP BLACK 96.8086

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		
UL File Number	E86615		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183/A
Viscosity Number	136	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2/1A/1
Tensile Stress (Break, 23°C)	123	MPa	ISO 527-2/1A/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.2	kJ/m ²	
23°C	6.6	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	44	kJ/m ²	
23°C	52	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	213	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	197	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	213	°C	ISO 306/A50
--	205	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index ¹	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20
0.400 mm	V-2		

0.800 mm	V-2		
1.60 mm	V-2		
3.20 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.380 mm	800	°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	27	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	< 240	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	80.0 to 140	MPa	
Injection Rate	Moderate		
NOTE			
1.	Classe 3		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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

