

SCHULAMID® 6 MGF 45 FR 6

Polyamide 6
A. Schulman Europe

Message:
45% mineral filled and glass fiber reinforced flame-retardant Polyamide 6 grade; halogen free; low warpage

General Information			
UL YellowCard	E86615-252149		
Filler / Reinforcement	Glass\Mineral,45% Filler by Weight		
Features	Flame Retardant		
	Good Electrical Properties		
	Halogen Free		
	High Strength		
	Low (to None) Phosphorus Content		
	Low Smoke Emission		
	Low Warpage		
UL File Number	E86615		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	120	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m²	
23°C	6.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	38	kJ/m²	
23°C	40	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	206	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	182	°C	ISO 75-2/Af
Vicat Softening Temperature	212	°C	ISO 306/A50, ISO 306/B50
Ball Pressure Test (200°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112

Flammability	Nominal Value	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			
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3.00 mm	V-0		UL 94, IEC 60695-11-10, -20
1.50 mm	V-0		IEC 60695-11-10, -20
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	800	°C	
3.00 mm	800	°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

