

SCHULAMID® 6 GF 15

Polyamide 6
A. Schulman Europe

Message:
15% glass fibre reinforced Polyamide 6

General Information				
UL YellowCard		E86615-252150	E188844-102210953	
Filler / Reinforcement		Glass fiber reinforced material, 15% filler by weight		
Features		Good liquidity		
		Oil resistance		
		Excellent appearance		
UL File Number		E86615		
Processing Method		Injection molding		
Resin ID (ISO 1043)		PA6 GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm³	ISO 1183/A
Viscosity Number	145	--	cm³/g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	174	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5800	3000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	120	70.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5	15	%	ISO 527-2/1A/5
Flexural Modulus ¹	4300	--	MPa	ISO 178
Flexural Stress ²	170	--	MPa	ISO 178
Flexural Strain at Flexural Strength	6.5	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m²	ISO 179/1eA
23°C	7.0	15	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	--	kJ/m²	ISO 179/1eU
23°C	45 kJ/m²	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, not annealed	210	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	200	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
--	215	--	°C	ISO 306/A50
--	210	--	°C	ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		IEC 60695-11-10, -20
1.50 mm	HB	--		IEC 60695-11-10, -20
3.00 mm	HB	--		IEC 60695-11-10, -20
Glow Wire Flammability Index				IEC 60695-2-12
1.50 mm	--	650	°C	IEC 60695-2-12
3.00 mm	--	650	°C	IEC 60695-2-12

Additional Information

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1.)

Not for use in food contact applications2.)

Not for use in medical or pharmaceutical applications

NOTE

1. 2.0 mm/min

2. 2.0 mm/min

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