

SCHULAMID® 6 GF 50

Polyamide 6
A. Schulman Europe

Message:
50% glass fiber reinforced Polyamide 6 with high tensile strength and stiffness

General Information				
UL YellowCard		E86615-252162		
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		High Temperature Strength		
		High Tensile Strength		
		Medium Flow		
		Oil Resistant		
		Ultra High Stiffness		
UL File Number		E86615		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16000	9500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	210	130	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.2	4.5	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	15	24	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	90	--	kJ/m ²	
23°C	95 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	205	--	°C	ISO 75-2/Af
Vicat Softening Temperature				

--	216	--	°C	ISO 306/A50
--	212	--	°C	ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 100	--	mm/min	ISO 3795
Flammability Classification				IEC 60695-11-10, -20
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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