

SCHULAMID® 6 GF 40

Polyamide 6
A. Schulman Europe

Message:
40% glass fiber reinforced polyamid 6 compound

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-GF		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183/A
Viscosity Number	145	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	14000	8500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	200	128	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	6.3	%	ISO 527-2/1A/5
Flexural Modulus ¹	12000	--	MPa	ISO 178
Flexural Stress ²	300	--	MPa	ISO 178
Flexural Strain at Flexural Strength	3.5	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	14	22	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	86	--	kJ/m ²	
23°C	94 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
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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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

