

SCHULAMID® 6 GF 30 HI BLACK

Polyamide 6
A. Schulman Europe

Message:
30% glass fiber reinforced high impact Polyamid 6

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Chemical Resistance		
		Good Flow		
		Good Toughness		
		High Impact Resistance		
		Oil Resistant		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6I GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm ³	ISO 1183/A
Water Absorption (Equilibrium, 23°C, 50% RH)	1.9	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	175	115	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8000	4800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	135	90.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	6.5	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	--	kJ/m ²	
23°C	22	40	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	--	kJ/m ²	
23°C	85 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	190	--	°C	ISO 75-2/ Af

Vicat Softening Temperature				
--	210	--	°C	ISO 306/A50
--	200	--	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+15	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	> 1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index	550	--	V	IEC 60112
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	--		

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