

SCHULAMID® 66 CF 20 H

Polyamide 66
A. Schulman Europe

Message:
20% carbon fiber reinforced, heat stabilized Polyamide 66 with very high tensile strength

General Information				
Filler / Reinforcement		Carbon Fiber,20% Filler by Weight		
Features		Good Heat Aging Resistance		
		Good Toughness		
		Low Density		
		Low Friction		
		Oil Resistant		
		Ultra High Stiffness		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.21	--	g/cm ³	ISO 1183/A
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	300	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	17000	11000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	220	160	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.8	5.2	%	ISO 527-2/1A/5
Flexural Modulus	13000	--	MPa	ISO 178
Flexural Stress	315	--	MPa	ISO 178
Flexural Strain at Flexural Strength	3.6	--	%	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	8.0	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	--	kJ/m ²	
23°C	60	85	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	> 250	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	246	--	°C	ISO 75-2/Af
Vicat Softening Temperature				
	> 250	--	°C	ISO 306/A50, ISO 306/B50
Ball Pressure Test (220°C)				
	Pass	--		IEC 60695-10-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	> 1.0E+4	> 1.0E+6	ohms	IEC 60093
Volume Resistivity	> 1.0E+3	--	ohms·cm	IEC 60093
Comparative Tracking Index				
	100	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				
				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		

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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

