

SCHULAMID® 12 GF 20 H BLACK 96.8001

REC

Polyamide 12

A. Schulman Europe

Message:

20% glass fiber reinforced and heat stabilized Polyamide 12, recycled grade

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 20% filler by weight		
Features		Good dimensional stability		
		Equilibrium rigidity/toughness		
		Workability, good		
		Good corrosion resistance		
		Good heat aging resistance		
		Good chemical resistance		
		Fuel resistance		
		Oil resistance		
		Low or no water absorption		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183/A
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4000	3400	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	70.0	60.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	5.0	7.0	%	ISO 527-2/1A/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	--	kJ/m ²	ISO 179/1eA
23°C	14	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	--	kJ/m ²	ISO 179/1eU
23°C	55	60	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	170	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	145	--	°C	ISO 75-2/Af

Vicat Softening Temperature				
--	175	--	°C	ISO 306/A50
--	155	--	°C	ISO 306/B50
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm)	50	--	mm/min	ISO 3795
Flammability Classification				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	725	--	°C	IEC 60695-2-12
3.00 mm	725	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
1.50 mm	750	--	°C	IEC 60695-2-13
3.00 mm	750	--	°C	IEC 60695-2-13

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Recommended distributors for this material

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