

Tekumid 6 SC/GF 30

Polyamide 6
TEKUMA Kunststoff GmbH

Message:

Tekumid 6 SC/GF 30 is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Europe. Primary attribute of Tekumid 6 SC/GF 30: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.34	--	g/cm ³	ASTM D792
Water Absorption				ASTM D570
23°C, 24 hr	6.6	--	%	
Equilibrium, 23°C, 50% RH	2.3	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness	122	112		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	170	110	MPa	ASTM D638
Tensile Elongation (Break)	3.5	4.0	%	ASTM D638
Flexural Modulus	8000	4500	MPa	ASTM D790
Flexural Strength	250	150	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Unnotched Izod Impact (23°C, 3.20 mm)	100	130	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	215	--	°C	
1.8 MPa, Unannealed	210	--	°C	
Melting Temperature	215 to 220	--	°C	DSC
CLTE - Flow (-30 to 30°C)	2.3E-5	--	cm/cm/°C	ASTM D696
Thermal Conductivity	0.28	--	W/m/K	ASTM C177
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	60	40	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80	--		IEC 60250
Dissipation Factor (1 MHz)	0.025	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method

Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	HB	--		
Glow Wire Ignition				
Temperature (2.00 mm)	650	--	°C	IEC 60695-2-13

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