

Tekumid 6 SC

Polyamide 6
TEKUMA Kunststoff GmbH

Message:

Tekumid 6 SC is a Polyamide 6 (Nylon 6) material. It is available in Europe. Primary attribute of Tekumid 6 SC: Flame Rated.

General Information				
Appearance		Natural Color		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.26	--	g/cm ³	ASTM D792
Water Absorption				ASTM D570
23°C, 24 hr	9.0 to 10	--	%	
Equilibrium, 23°C, 50% RH	2.5 to 3.4	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness	120	102		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield	80.0	40.0	MPa	
Break	60.0	30.0	MPa	
Tensile Elongation (Break)	> 60	> 200	%	ASTM D638
Flexural Modulus	2800	800	MPa	ASTM D790
Flexural Strength	120	60.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (0°C, 3.20 mm)	45	500	J/m	ASTM D256
Unnotched Izod Impact (23°C, 3.20 mm)	50	600	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	180	--	°C	
1.8 MPa, Unannealed	70.0	--	°C	
Vicat Softening Temperature				
--	200	--	°C	ASTM D1525 ¹
--	165	--	°C	ISO 306/B50
Melting Temperature	215 to 220	--	°C	DSC
CLTE - Flow (-30 to 30°C)	7.5E-5	--	cm/cm/°C	ASTM D696
Thermal Conductivity	0.25	--	W/m/K	ASTM C177
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	90	40	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60	7.00		IEC 60250
Dissipation Factor (1 MHz)	0.030	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	V-2	--		
Glow Wire Ignition Temperature (2.00 mm)	750	--	°C	IEC 60695-2-13
NOTE				

1. Rate A (50°C/h), Loading 1
(10 N)

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