

Stanyl® TW200B6

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW200B6 is a Polyamide 46 (Nylon 46) material filled with 30% carbon fiber. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TW200B6 are:
Heat Stabilizer
Lubricated

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
Features		Heat Stabilized		
		Lubricated		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	24000	--	MPa	
120°C	10000	--	MPa	
160°C	8800	--	MPa	
180°C	8300	--	MPa	
Tensile Stress				ISO 527-2
Break	240	150	MPa	
Break, 120°C	125	--	MPa	
Break, 160°C	105	--	MPa	
Break, 180°C	95.0	--	MPa	
Tensile Strain				ISO 527-2
Break	2.0	4.0	%	
Break, 120°C	3.0	--	%	
Break, 160°C	3.0	--	%	
Break, 180°C	3.0	--	%	

Flexural Modulus	18500	9200	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.5	6.5	kJ/m ²	
23°C	8.0	14	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	50	kJ/m ²	
23°C	60	75	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	6.5	6.5	kJ/m ²	
23°C	8.0	14	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	--	°C	ISO 75-2/A
Melting Temperature	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	8.0E-6	--	cm/cm/°C	
Transverse	3.4E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+2	--	ohms·cm	IEC 60093
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	280 to 320		°C	
Middle Temperature	300 to 320		°C	
Front Temperature	300 to 320		°C	
Nozzle Temperature	300 to 320		°C	
Processing (Melt) Temp	305 to 320		°C	
Mold Temperature	80.0 to 120		°C	
Injection Rate	Moderate-Fast			
Back Pressure	2.00 to 10.0		MPa	
Screw Compression Ratio	2.5:1.0			

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