

Stanyl® TW200F3

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW200F3 is a Polyamide 46 (Nylon 46) material filled with 15% glass fiber. It is available in Europe or North America.
Important attributes of Stanyl® TW200F3 are:
Flame Rated
Heat Stabilizer

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Forms		Pellets		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.29	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 50% RH)	3.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	6100	2800	MPa	
120°C	3000	--	MPa	
160°C	2650	--	MPa	
180°C	2500	--	MPa	
200°C	2350	--	MPa	
Tensile Stress				ISO 527-2
Break	140	70.0	MPa	
Break, 120°C	85.0	--	MPa	
Break, 160°C	75.0	--	MPa	
Break, 180°C	70.0	--	MPa	
Break, 200°C	65.0	--	MPa	
Tensile Strain				ISO 527-2
Break	4.0	8.0	%	
Break, 120°C	12	--	%	
Break, 160°C	12	--	%	
Break, 180°C	12	--	%	
Break, 200°C	12	--	%	
Flexural Modulus	5800	2800	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	6.0	6.0	kJ/m ²	
23°C	6.0	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	45	50	kJ/m ²	
23°C	50	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	6.0	6.0	kJ/m ²	
23°C	6.0	13	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	275	--	°C	ISO 75-2/A
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	5.0E-5	--	cm/cm/°C	
Transverse	8.0E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	1.0E+9	ohms·cm	IEC 60093
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (1.60 mm)	HB	--		IEC 60695-11-10, -20
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			
NOTE				
1.	10°C/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

