

Stanyl® TW275F6

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW275F6 is a Polyamide 46 (Nylon 46) material filled with 30% glass fiber. It is available in Asia Pacific or North America.
Important attributes of Stanyl® TW275F6 are:
Heat Stabilizer
Wear Resistant

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Wear Resistance		
		Heat Stabilized		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.43	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
Break	205	115	MPa	
Break, 120°C	110	--	MPa	
Break, 160°C	100	--	MPa	
Break, 180°C	95.0	--	MPa	
Break, 200°C	90.0	--	MPa	
Tensile Strain				ISO 527-2
Break	3.5	7.0	%	
Break, 120°C	8.4	--	%	
Break, 160°C	8.9	--	%	
Break, 180°C	9.1	--	%	
Break, 200°C	9.4	--	%	
Flexural Modulus	9000	6000	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	9.0	kJ/m ²	
23°C	10	18	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	70	kJ/m ²	
23°C	75	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	9.0	9.0	kJ/m ²	
23°C	10	18	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	285	--	°C	ISO 75-2/A
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.5E-5	--	cm/cm/°C	
Transverse	6.0E-5	--	cm/cm/°C	
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.

Recommended distributors for this material

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



WECHAT