

Stanyl® TW200F8

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW200F8 is a Polyamide 46 (Nylon 46) material filled with 40% glass fiber. It is available in Europe or North America.
Important attributes of Stanyl® TW200F8 are:
Flame Rated
Heat Stabilizer
Typical application of Stanyl® TW200F8: Automotive

General Information	
UL YellowCard	E43392-235041
Filler / Reinforcement	Glass Fiber,40% Filler by Weight
Additive	Heat Stabilizer
Features	Heat Stabilized
Forms	Pellets
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)
	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)

Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.50	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	13000	8000	MPa	
120°C	6900	--	MPa	
160°C	6100	--	MPa	
180°C	5700	--	MPa	
200°C	5300	--	MPa	
Tensile Stress				ISO 527-2
Break	230	140	MPa	
Break, 120°C	130	--	MPa	
Break, 160°C	115	--	MPa	
Break, 180°C	105	--	MPa	
Break, 200°C	100	--	MPa	
Tensile Strain				ISO 527-2

Break	3.0	6.0	%	
Break, 120°C	6.5	--	%	
Break, 160°C	6.5	--	%	
Break, 180°C	6.5	--	%	
Break, 200°C	6.5	--	%	
Flexural Modulus				ISO 178
--	11500	7000	MPa	
120°C	5800	--	MPa	
160°C	5200	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m ²	
23°C	14	21	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	85	kJ/m ²	
23°C	95	100	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	12	12	kJ/m ²	
23°C	14	21	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	--	°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	5.0E-5	--	cm/cm/°C	
Thermal Index ²	177	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	1.0E+10	ohms·cm	IEC 60093
Electric Strength	30	20	kV/mm	IEC 60243-1
Comparative Tracking Index	300	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.900 mm	HB	--		
1.60 mm	HB	--		
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
2. 5000 hr

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