

Stanyl® TW271F6J10

Polyamide 46

DSM Engineering Plastics

Message:

Stanyl® TW271F6J10 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® TW271F6J10 are:

Flame Rated

Heat Stabilizer

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.48	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6000	MPa	ISO 527-2
Tensile Stress (Break)	190	105	MPa	ISO 527-2
Tensile Strain (Break)	3.2	6.0	%	ISO 527-2
Flexural Modulus	8500	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	11	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	13	16	kJ/m ²	ISO 179/1eU
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
Thermal Index - 5000 hr	177	--	°C	IEC 60216
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				IEC 60695-11-10, -20
0.750 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

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