

Stanyl® TW241F3

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW241F3 is a Polyamide 46 (Nylon 46) material filled with 15% glass fiber. It is available in Asia Pacific.
Important attributes of Stanyl® TW241F3 are:
Flame Rated
Heat Stabilizer
Lubricated

General Information				
UL YellowCard		E47960-102044640		
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
Features		Heat Stabilized		
		Lubricated		
Forms		Pellets		
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	
Flammability	Dry	Conditioned		Test Method
Flammability Classification (1.50 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			

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