

Stanyl® TW241B3

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW241B3 is a Polyamide 46 (Nylon 46) material filled with 15% carbon fiber. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TW241B3 are:
Heat Stabilizer
Lubricated

General Information				
Filler / Reinforcement		Carbon Fiber, 15% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
Features		Heat Stabilized		
		Lubricated		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	3.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	--	MPa	ISO 527-2
Tensile Stress (Break)	185	110	MPa	ISO 527-2
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2
Flexural Modulus	10500	5800	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.5	4.5	kJ/m ²	
23°C	5.0	12	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	40	kJ/m ²	
23°C	45	70	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-40°C	4.5	4.5	kJ/m ²	

23°C	5.0	12	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	
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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