

Stanyl® TW272B6

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW272B6 is a Polyamide 46 (Nylon 46) material filled with 30% carbon fiber. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TW272B6 are:
Heat Stabilizer
Wear Resistant

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Wear Resistance		
		Heat Stabilized		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.30	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.3	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	24000	14500	MPa	
120°C	12500	--	MPa	
160°C	11000	--	MPa	
180°C	10500	--	MPa	
200°C	10000	--	MPa	
Tensile Stress				ISO 527-2
Break	240	160	MPa	
Break, 120°C	130	--	MPa	
Break, 160°C	110	--	MPa	
Break, 180°C	100	--	MPa	
Break, 200°C	90.0	--	MPa	
Tensile Strain				ISO 527-2
Break	1.6	3.5	%	
Break, 120°C	3.1	--	%	
Break, 160°C	3.1	--	%	
Break, 180°C	3.1	--	%	
Break, 200°C	3.1	--	%	

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				
-30°C	6.0	6.0	kJ/m ²	ISO 179/1e
23°C	6.0	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				
				ISO 179/1eU
-30°C	50	55	kJ/m ²	
23°C	50	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	--	°C	ISO 75-2/A
Melting Temperature	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.5E-5	--	cm/cm/°C	
Transverse	3.5E-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			

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Recommended distributors for this material

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