

Stanyl® TS241B3

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TS241B3 is a Polyamide 46 (Nylon 46) material filled with 15% carbon fiber. It is available in Asia Pacific. Primary attribute of Stanyl® TS241B3: Lubricated.

General Information				
UL YellowCard		E172082-225880		
Filler / Reinforcement		Carbon Fiber,15% Filler by Weight		
Additive		Lubricant		
Features		Lubricated		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
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 (23°C)	5.0	--	kJ/m ²	ISO 179/1eA
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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Recommended distributors for this material

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