

Stanyl® TW242FM10

Polyamide 46

DSM Engineering Plastics

Message:

Stanyl® TW242FM10 is a Polyamide 46 (Nylon 46) material filled with 50% glass fiber. It is available in North America. Primary attribute of Stanyl® TW242FM10: Heat Stabilizer.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	0.20	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ISO 527-2
Tensile Stress (Break)	160	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Flexural Modulus	11000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.5	kJ/m ²	
23°C	6.0	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-40°C	4.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	285	°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	Nominal Value	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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