

Stanyl® TW350

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW350 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific.
Important attributes of Stanyl® TW350 are:
Flame Rated
Flame Retardant
Heat Stabilizer

General Information			
UL YellowCard	E172082-225895		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Heat Stabilized		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.39	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.5	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2
Tensile Stress (Yield)	80.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	20	%	ISO 527-2
Flexural Modulus	3200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°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)	190	°C	ISO 75-2/A
Melting Temperature ¹	295	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	8.0E-5	cm/cm/°C	
Transverse	9.0E-5	cm/cm/°C	

Flammability	Nominal Value	Test Method
Flammability Classification (1.50 mm)	V-0	IEC 60695-11-10, -20
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	310 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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