

Stanyl® TW371

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW371 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TW371 are:
Flame Rated
Heat Stabilizer
Wear Resistant

General Information				
UL YellowCard		E43392-235050	E47960-240081	
Additive		Heat Stabilizer		
Features		Good Wear Resistance		
		Heat Stabilized		
Multi-Point Data		Shear Modulus vs. Temperature (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	2.0	--	%	
Flow	2.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	3.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2900	1000	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	50.0	MPa	ISO 527-2
Nominal Tensile Strain at Break	30	> 50	%	ISO 527-2
Flexural Modulus	2600	900	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m²	
23°C	7.0	15	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	150 kJ/m²	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-40°C	5.0	5.0	kJ/m²	
23°C	7.0	14	kJ/m²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	--	°C	ISO 75-2/A
Melting Temperature (DSC) 1	295	--	°C	ISO 3146
CLTE				ISO 11359-2
Flow	8.5E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Thermal Index - 5000 hr	152	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	1.0E+9	ohms·cm	IEC 60093
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		
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	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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