

Stanyl® TW363

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TW363 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TW363 are:
Heat Stabilizer
Impact Modified

General Information				
Additive		Heat Stabilizer Impact Modifier		
Features		Heat Stabilized Impact Modified		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	2.0	--	%	
Flow	2.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	3.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	1850	600	MPa	
120°C	400	--	MPa	
160°C	350	--	MPa	
Tensile Stress				ISO 527-2
Yield	60.0	45.0	MPa	
Yield, 120°C	35.0	--	MPa	
Yield, 160°C	30.0	--	MPa	
Nominal Tensile Strain at Break				ISO 527-2
--	> 50	> 50	%	
120°C	> 50	--	%	
160°C	> 50	--	%	
Flexural Modulus				ISO 178
--	1800	550	MPa	

120°C	400	--	MPa	
160°C	350	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	26	30	kJ/m ²	
23°C	75	130	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-40°C	40	40	kJ/m ²	
23°C	80	130	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	--	°C	ISO 75-2/A
Melting Temperature ¹	295	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.8E-5	--	cm/cm/°C	
Transverse	2.0E-5	--	cm/cm/°C	
Thermal Index - 5000 hrs	135	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+9	ohms·cm	IEC 60093
Electric Strength	25	15	kV/mm	IEC 60243-1
Comparative Tracking Index	475	--	V	IEC 60112
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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

