

Stanyl® TE300

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TE300 is a Polyamide 46 (Nylon 46) material. It is available in Europe.
Important attributes of Stanyl® TE300 are:
Flame Rated
Heat Stabilizer

General Information				
UL YellowCard		E47960-240067		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	2.0	--	%	
Flow	2.0	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	3.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	3300	1000	MPa	
120°C	800	--	MPa	
160°C	650	--	MPa	
180°C	600	--	MPa	
200°C	500	--	MPa	
Tensile Stress				ISO 527-2
Yield	100	55.0	MPa	
Yield, 120°C	50.0	--	MPa	
Yield, 160°C	40.0	--	MPa	
Yield, 180°C	35.0	--	MPa	
Yield, 200°C	30.0	--	MPa	
Nominal Tensile Strain at Break				ISO 527-2
--	40	> 50	%	
120°C	> 50	--	%	
160°C	> 50	--	%	
180°C	> 50	--	%	
200°C	> 50	--	%	
Flexural Modulus				ISO 178

--	3000	900	MPa	
120°C	800	--	MPa	
160°C	600	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m ²	
23°C	10	35	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	4.0	4.0	kJ/m ²	
23°C	10	35	kJ/m ²	
Thermal	Dry	Conditioned	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	8.5E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Thermal Index - 5000 hrs	128	--	°C	IEC 60216
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+12	ohms · cm	IEC 60093
Electric Strength	25	20	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-2	--		
1.50 mm	V-2	--		
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

