

Stanyl® TC502

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TC502 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific or Europe. Primary attribute of Stanyl® TC502: Conductive.

General Information			
Features	Thermally Conductive		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.60	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2
Tensile Stress (Break)	65.0	MPa	ISO 527-2
Tensile Strain (Break)	1.1	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ¹	295	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	
Transverse	3.5E-5	cm/cm/°C	
Thermal Conductivity			ASTM E1461
-- ²	2.1	W/m/K	
-- ³	14	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+6	ohms · cm	IEC 60093
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	305 to 335	°C	
Processing (Melt) Temp	305 to 325	°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
2.	through plane
3.	in plane

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

