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/cm³	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

Recommended distributors for this material

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