

Stanyl® TC551

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TC551 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific or Europe.
Important attributes of Stanyl® TC551 are:
Flame Rated
Flame Retardant
Conductive

General Information			
UL YellowCard	E47960-100284876		
Additive	Flame Retardant		
Features	Flame Retardant		
	Thermally Conductive		

Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.0	%	
Flow	0.60	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9100	MPa	ISO 527-2
Tensile Stress (Break)	50.0	MPa	ISO 527-2
Tensile Strain (Break)	0.60	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity			ASTM E1461
-- ¹	2.1	W/m/K	
-- ²	14	W/m/K	
RTI Elec (0.750 mm)	65.0	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+6	ohms · cm	IEC 60093

Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	V-0		
1.50 mm	V-0		

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.	Through Plane	
2.	In Plane	

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Recommended distributors for this material

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