

Stanyl® TC154

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TC154 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TC154 are:
Flame Rated
Flame Retardant
Conductive
Heat Stabilizer

General Information	
UL YellowCard	E47960-100686901
Additive	Flame Retardant
	Heat Stabilizer
Features	Flame Retardant
	Heat Stabilized
	Thermally Conductive

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5100	MPa	ISO 527-2
Tensile Stress (Break)	55.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	2.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
CLTE			ISO 11359-2
Flow	4.8E-5	cm/cm/°C	
Transverse	4.8E-5	cm/cm/°C	
Thermal Conductivity			ASTM E1461
-- 1	0.50	W/m/K	
-- 2	1.0	W/m/K	
RTI Elec (0.750 mm)	140	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	IEC 60093

Electric Strength	30	kV/mm	IEC 60243-1
Comparative Tracking Index	225	V	IEC 60112
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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