

Stanyl® TC153

Polyamide 46
DSM Engineering Plastics

Message:
Thermal conductive material, Flame Retardant, Heat Stabilized

General Information			
UL YellowCard	E47960-100701546		
Additive	Flame Retardant		
	Heat Stabilizer		
Features	Flame Retardant		
	Heat Stabilized		
	Thermally Conductive		

Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.30	%	
Flow	0.30	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12500	MPa	ISO 527-2
Tensile Stress (Break)	55.0	MPa	ISO 527-2
Tensile Strain (Break)	0.60	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m²	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
CLTE			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	
Transverse	2.5E-5	cm/cm/°C	
Thermal Conductivity			ASTM E1461
-- 1	1.0	W/m/K	
-- 2	8.0	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	600	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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