

Stanyl® TC155

Polyamide 46
DSM Engineering Plastics

Message:

Stanyl® TC155 is a Polyamide 46 (Nylon 46) material. It is available in Asia Pacific, Europe, or North America.
Important attributes of Stanyl® TC155 are:
Flame Rated
Flame Retardant
Conductive
Heat Stabilizer

General Information			
UL YellowCard	E47960-101517268		
Additive	Flame Retardant Heat Stabilizer		
Features	Flame Retardant Heat Stabilized Thermally Conductive		
Physical	Nominal Value	Unit	Test Method
Density	1.62	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.30	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11000	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			ISO 179/1eA
-30°C	1.6	kJ/m ²	
23°C	2.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	10	kJ/m ²	
23°C	10	kJ/m ²	
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	5.0	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	575	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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