


Stanyl® TC153

PA46 FR(17)

DSM Engineering Plastics

Product Texts

Thermal conductive material, Flame Retardant, Heat Stabilized

ISO 1043 PA46 FR(17)

[Stanyl website](#)
Mechanical properties

dry / cond

Unit

Test Standard

ISO Data

Tensile Modulus	12500 / -	MPa	ISO 527-1/-2
Stress at break	55 / -	MPa	ISO 527-1/-2
Strain at break	0.6 / -	%	ISO 527-1/-2
Charpy notched impact strength (+23°C)	2 / -	kJ/m²	ISO 179/1eA

Thermal properties

dry / cond

Unit

Test Standard

ISO Data

Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	25 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. 5V at thickness h	5VA / *	class	IEC 60695-11-20
Thickness tested	1.6 / *	mm	IEC 60695-11-20

Electrical properties

dry / cond

Unit

Test Standard

ISO Data

Volume resistivity	1E13 / -	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093
Electric strength	30 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties

dry / cond

Unit

Test Standard

ISO Data

Density	1630 / -	kg/m³	ISO 1183
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Characteristics
Processing

Injection Molding

Additives

Lubricants

Delivery form

Pellets

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Other text information
Injection Molding
[Injection Molding Recommendations](#)