

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/m ²	ISO 179/1eA		
Thermal properties					
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					
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					
ISO Data					
Density	1630 / -	kg/m ³	ISO 1183		
Characteristics					
Processing		Additives			
Injection Molding		Lubricants			
Delivery form		Special Characteristics			
Pellets		Flame retardant, Heat stabilized or stable to heat			
Other text information					
Injection Molding					
Injection Molding Recommendations					