

Stanyl® TE351

PA46 FR(17)

DSM Engineering Plastics

Product Texts

Flame Retardant, Heat Stabilized

ISO 1043 PA46 FR(17)

[Stanyl website](#)

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3000 / 1200	MPa	ISO 527-1/-2
Yield stress	60 / 45	MPa	ISO 527-1/-2
Yield strain	4 / 15	%	ISO 527-1/-2
Nominal strain at break	20 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	85 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	85 / 95	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / 14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	5 / 5	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	75 / *	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	160 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	90 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	90 / *	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 / *	-	-

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	7.5 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1370 / -	kg/m ³	ISO 1183

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Additives

Lubricants, Release agent

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