

Stanyl® TE373

PA46

Heat Stabilized, Wear and Friction Modified

Stanyl® TE373 is a friction-modified high heat polyamide that offers excellent wear & friction properties in combination with outstanding creep resistance, strength, stiffness and fatigue resistance especially at high temperatures in combination with cycle-time advantages and excellent flow.

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	2800 / 1000	MPa	ISO 527-1/-2
Yield stress	85 / 50	MPa	ISO 527-1/-2
Nominal strain at break	10 / 15	%	ISO 527-1/-2
Flexural modulus	2400 / -	MPa	ISO 178
Flexural strength	100 / -	MPa	ISO 178
Charpy impact strength (+23°C)	150 / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	105 / 120	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / 4	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	5 / 9	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	4 / 4	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	190 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.85 / *	E-4/°C	ISO 11359-1/-2

Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (normal)	1.1 / *	E-4/°C	ISO 11359-1/-2
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Humidity absorption	3.4 / *	%	Sim. to ISO 62
Density	1170 / -	kg/m ³	ISO 1183