

**Stanyl® TE373**

PA46

DSM Engineering Plastics

**Product Texts**

Heat Stabilized, Wear and Friction Modified

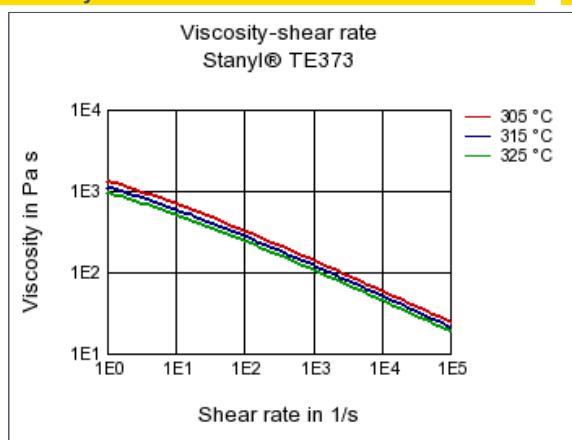
ISO 1043 PA46

[Stanyl website](#)

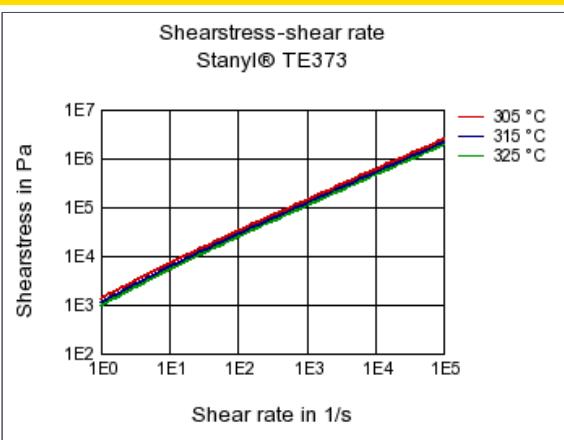
<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	2800 / 1000	MPa	ISO 527-1/-2
Yield stress	85 / 50	MPa	ISO 527-1/-2
Yield strain	10 / 20	%	ISO 527-1/-2
Nominal strain at break	10 / 15	%	ISO 527-1/-2
Charpy impact strength (+23°C)	150 / N	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	105 / 120	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	4 / 4	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
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)	190 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	85 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110 / *	E-6/K	ISO 11359-1/-2
<b>Other properties</b>			
<b>ISO Data</b>			
Water absorption	12.4 / *	%	Sim. to ISO 62
Humidity absorption	3.4 / *	%	Sim. to ISO 62
Density	1170 / -	kg/m <sup>3</sup>	ISO 1183
<b>Material specific properties</b>			
<b>ISO Data</b>			
Viscosity number	180 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628
<b>Rheological calculation properties</b>			
<b>ISO Data</b>			
Density of melt	1000	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.253	W/(m K)	-
Spec. heat capacity of melt	2780	J/(kg K)	-
Eff. thermal diffusivity	8.96E-8	m <sup>2</sup> /s	-

## Diagrams

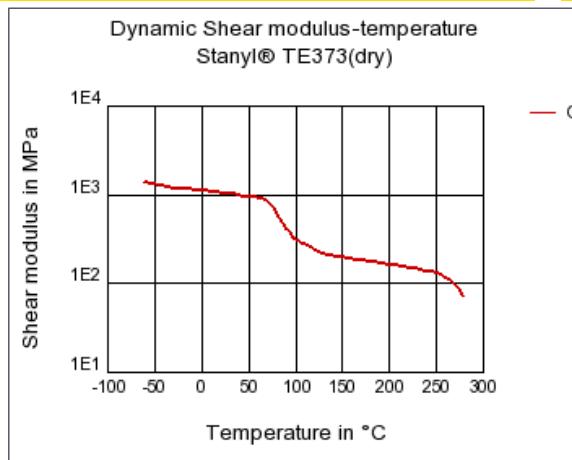
## Viscosity-shear rate



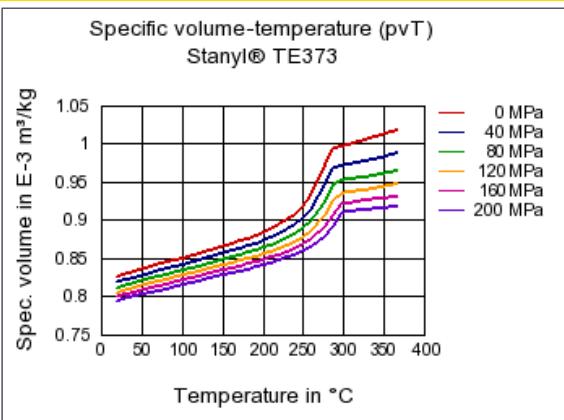
## Shearstress-shear rate



## Dynamic Shear modulus-temperature



## Specific volume-temperature (pvT)



## Characteristics

## Processing

Injection Molding

## Special Characteristics

Heat stabilized or stable to heat

## Other text information

## Injection Molding

[Injection Molding Recommendations](#)