

Stanyl® TE300

Property Data

PA46-unfilled
Heat Stabilized

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
	dry / cond		
Molding shrinkage (parallel)	2 / *	%	ISO 294-4
Molding shrinkage (normal)	2 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	dry / cond		
Tensile modulus	3300 / 1000	MPa	ISO 527-1/-2
Tensile modulus (120°C)	800	MPa	ISO 527-1/-2
Tensile modulus (160°C)	650	MPa	ISO 527-1/-2
Yield stress	100 / 55	MPa	ISO 527-1/-2
Yield stress (120°C)	50	MPa	ISO 527-1/-2
Yield stress (160°C)	40	MPa	ISO 527-1/-2
Nominal strain at break	40 / >50	%	ISO 527-1/-2
Nominal strain at break (120°C)	>50	%	ISO 527-1/-2
Nominal strain at break (160°C)	>50	%	ISO 527-1/-2
Flexural modulus	3000 / 900	MPa	ISO 178
Flexural modulus (120°C)	800	MPa	ISO 178
Flexural modulus (160°C)	600	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	12 / 45	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9 / 12	kJ/m ²	ISO 179/1eA
Izod notched impact strength (23°C)	10 / 40	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	9 / 12	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
Coeff. of linear therm. expansion (normal)	1.1 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning Behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Relative Temperature Index - electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	1.5	mm	UL746B
Thermal Index 5000 hrs	128	°C	IEC 60216/ISO 527-1/-2
ELECTRICAL PROPERTIES			
	dry / cond		
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093

06.07.2006

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information.

Stanyl® TE300

Electric strength	25 / 20	kV/mm	IEC 60243-1
Comparative tracking index	600 / 600	-	IEC 60112

OTHER PROPERTIES

dry / cond

Humidity absorption	3.7 / *	%	Sim. to ISO 62
Density	1180 / -	kg/m ³	ISO 1183

06.07.2006

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information.