

# Stanyl<sup>®</sup> TE200S6

## PA46–GB30

30% Glass Beads Reinforced, Heat Stabilized, Low Warpage

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Molding shrinkage [parallel]	1.3 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.7 / *	%	Sim. to ISO 294–4
<b><i>MECHANICAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Tensile modulus	4700 / 2400	MPa	ISO 527–1/–2
Tensile modulus (120°C)	1000 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	900	MPa	ISO 527–1/–2
Tensile modulus (180°C)	800	MPa	ISO 527–1/–2
Tensile modulus (200°C)	740	MPa	ISO 527–1/–2
Stress at break	90 / 60	MPa	ISO 527–1/–2
Stress at break (120°C)	45 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	35	MPa	ISO 527–1/–2
Stress at break (180°C)	32	MPa	ISO 527–1/–2
Stress at break (200°C)	30	MPa	ISO 527–1/–2
Strain at break	4.5 / 14	%	ISO 527–1/–2
Strain at break (120°C)	30 / –	%	ISO 527–1/–2
Strain at break (160°C)	29	%	ISO 527–1/–2
Strain at break (180°C)	28	%	ISO 527–1/–2
Strain at break (200°C)	27	%	ISO 527–1/–2
Izod notched impact strength (+23°C)	4 / 9	kJ/m <sup>2</sup>	ISO 180/1A
<b><i>THERMAL PROPERTIES</i></b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357–1/–3

## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Temp. of deflection under load (1.80 MPa)	235 / *	°C	ISO 75-1/-2
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Volume resistivity	1E13 / 1E9	Ohm*m	IEC 62631-3-1
Electric strength	35 / 25	kV/mm	IEC 60243-1
Relative permittivity (100Hz)	4.4 / 12	–	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4.6	–	IEC 62631-2-1
Relative permittivity (1GHz)	3.6 / –	–	IEC 61189-2-721
<b><i>OTHER PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1410 / –	kg/m <sup>3</sup>	ISO 1183