

# Stanyl<sup>®</sup> TS200B3

## PA46–CF15

15% Carbon Reinforced

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>MECHANICAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Tensile modulus	13000 / –	MPa	ISO 527–1/–2
Stress at break	200 / 120	MPa	ISO 527–1/–2
Strain at break	2.3 / 4	%	ISO 527–1/–2
Flexural modulus	11500 / 5800	MPa	ISO 178
Flexural strength	280 / 150	MPa	ISO 178
Charpy notched impact strength (+23°C)	5.5 / –	kJ/m <sup>2</sup>	ISO 179/1eA
<b>THERMAL PROPERTIES</b>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	290 / *	°C	ISO 75–1/–2
Coeff. of linear therm. expansion (parallel)	0.25 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.5 / *	E–4/°C	ISO 11359–1/–2
<b>OTHER PROPERTIES</b>			
	<i>DRY / COND</i>		
Humidity absorption	3.2 / *	%	Sim. to ISO 62
Density	1230 / –	kg/m <sup>3</sup>	ISO 1183