

# Stanyl<sup>®</sup> TW200F5

## PA46–GF25

25% Glass Reinforced, Heat Stabilized

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>RHEOLOGICAL PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Molding shrinkage [parallel]	0.6 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.6 / *	%	Sim. to ISO 294–4
<b><i>MECHANICAL PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Tensile modulus	8700 / 4900	MPa	ISO 527–1/–2
Tensile modulus (120°C)	4700 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	4300	MPa	ISO 527–1/–2
Stress at break	195 / 110	MPa	ISO 527–1/–2
Stress at break (120°C)	105 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	93	MPa	ISO 527–1/–2
Strain at break	3.5 / 8	%	ISO 527–1/–2
Strain at break (120°C)	7 / –	%	ISO 527–1/–2
Strain at break (160°C)	7	%	ISO 527–1/–2
Flexural modulus	8000 / 4600	MPa	ISO 178
Flexural strength	255 / 130	MPa	ISO 178
Charpy impact strength (+23°C)	59 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (–30°C)	54 / 66	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5 / 17	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (–30°C)	8.7 / 8.6	kJ/m <sup>2</sup>	ISO 179/1eA
<b><i>THERMAL PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357–1/–3
Temp. of deflection under load (1.80 MPa)	280 / *	°C	ISO 75–1/–2

*Property Data (Provisional)*

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Coeff. of linear therm. expansion (parallel)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.7 / *	E-4/°C	ISO 11359-1/-2
<b><i>OTHER PROPERTIES</i></b>			
	<b><i>DRY / COND</i></b>		
Humidity absorption	3 / *	%	Sim. to ISO 62
Density	1360 / -	kg/m <sup>3</sup>	ISO 1183