

Stanyl[®] TW275F6

PA46–GF30

30% Glass Reinforced, Heat Stabilized, Wear and Friction Modified

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
RHEOLOGICAL PROPERTIES			
	<i>DRY / COND</i>		
Molding shrinkage [parallel]	0.5 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.3 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	<i>DRY / COND</i>		
Stress at break	205 / 115	MPa	ISO 527–1/–2
Stress at break (120°C)	110 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	100	MPa	ISO 527–1/–2
Stress at break (180°C)	95	MPa	ISO 527–1/–2
Stress at break (200°C)	90	MPa	ISO 527–1/–2
Strain at break	3.5 / 7	%	ISO 527–1/–2
Strain at break (120°C)	8.4 / –	%	ISO 527–1/–2
Strain at break (160°C)	8.9	%	ISO 527–1/–2
Strain at break (180°C)	9.1	%	ISO 527–1/–2
Strain at break (200°C)	9.4	%	ISO 527–1/–2
Flexural modulus	9000 / 6000	MPa	ISO 178
Charpy impact strength (+23°C)	75 / 100	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	60 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / 18	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	9 / 9	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	10 / 18	kJ/m ²	ISO 180/1A
Izod notched impact strength (–40°C)	9 / 9	kJ/m ²	ISO 180/1A

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<i>THERMAL PROPERTIES</i>			
	<i>DRY / COND</i>		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	285 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 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)	0.6 / *	E-4/°C	ISO 11359-1/-2
<i>OTHER PROPERTIES</i>			
	<i>DRY / COND</i>		
Humidity absorption	2.5 / *	%	Sim. to ISO 62
Density	1430 / -	kg/m ³	ISO 1183