

Stanyl[®] TW272F6

(PA46+PTFE)–GF30

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

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294–4
Molding shrinkage (normal)	1.2 / *	%	ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	10000 / –	MPa	ISO 527–1/–2
Tensile modulus (120°C)	5700 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	5400	MPa	ISO 527–1/–2
Stress at break	205 / –	MPa	ISO 527–1/–2
Stress at break (120°C)	115 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	100	MPa	ISO 527–1/–2
Strain at break	3.6 / –	%	ISO 527–1/–2
Strain at break (120°C)	6.8 / –	%	ISO 527–1/–2
Strain at break (160°C)	7.3	%	ISO 527–1/–2
Charpy impact strength (+23°C)	85 / –	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11.5 / –	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	10 / –	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	DRY / COND		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357–1/–3
Coeff. of linear therm. expansion (parallel)	0.18 / *	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	0.7 / *	E–4/°C	ISO 11359–1/–2
ELECTRICAL PROPERTIES			
	DRY / COND		

Property Data

Stanyl® TW272F6

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Volume resistivity	1E12 / 1E7	Ohm*m	IEC 62631-3-1
Comparative tracking index	400 / -	V	IEC 60112
<i>OTHER PROPERTIES</i>		<i>DRY / COND</i>	
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1470 / -	kg/m ³	ISO 1183