

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/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11.5 / —	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10 / —	kJ/m²	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		



Stanyl® TW272F6

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Volume resistivity	1E12 / 1E7	Ohm*m	IEC 62631-3-1
Comparative tracking index	400 / -	V	IEC 60112
OTHER PROPERTIES	DRY / COND		
Humidity absorption	2.6 / *	%	Sim. to ISO 62
Density	1470 / -	kg/m³	ISO 1183

