

Stanyl® TW271F6

Property Data

PA46-GF30

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

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES		dry / cond	
Molding shrinkage (parallel)	0.5 / *	%	ISO 294-4
Molding shrinkage (normal)	1.3 / *	%	ISO 294-4
MECHANICAL PROPERTIES		dry / cond	
Tensile modulus	9000 / 6000	MPa	ISO 527-1/-2
Tensile modulus (120°C)	5500	MPa	ISO 527-1/-2
Tensile modulus (160°C)	5000	MPa	ISO 527-1/-2
Stress at break	190 / 110	MPa	ISO 527-1/-2
Stress at break (120°C)	100	MPa	ISO 527-1/-2
Stress at break (160°C)	85	MPa	ISO 527-1/-2
Strain at break	3.7 / 7	%	ISO 527-1/-2
Flexural modulus	8500 / 5700	MPa	ISO 178
Charpy notched impact strength (+23°C)	13 / 15	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	11 / 11	kJ/m²	ISO 179/1eA
Izod notched impact strength (23°C)	13 / 15	kJ/m²	ISO 180/1A
Izod notched impact strength (-40°C)	11 / 11	kJ/m²	ISO 180/1A
THERMAL PROPERTIES		dry / cond	
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)	0.2 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Thermal Index 5000 hrs	177	°C	IEC 60216/ISO 527-1/-2
ELECTRICAL PROPERTIES		dry / cond	
Volume resistivity	1E12 / 1E7	Ohm*m	IEC 60093
Comparative tracking index	400 / 400	-	IEC 60112
OTHER PROPERTIES		dry / cond	
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1540 / -	kg/m³	ISO 1183

a **DSM**Product

Astonishing **Stanyl®**

