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

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