

Stanyl[®] TW242FM10

PA46—(GF+MF)50

50% Glass/Mineral Reinforced, Heat Stabilized

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
RHEOLOGICAL PROPERTIES			
	<i>DRY / COND</i>		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.25 / *	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES			
	<i>DRY / COND</i>		
Tensile modulus	12500 / –	MPa	ISO 527-1/-2
Stress at break	160 / –	MPa	ISO 527-1/-2
Strain at break	2 / –	%	ISO 527-1/-2
Flexural modulus	11500 / –	MPa	ISO 178
Flexural strength	225 / –	MPa	ISO 178
Charpy notched impact strength (+23°C)	5 / –	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4 / –	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	5.2 / –	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	4 / –	kJ/m ²	ISO 180/1A
THERMAL PROPERTIES			
	<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)	0.5 / *	E-4/°C	ISO 11359-1/-2
OTHER PROPERTIES			
	<i>DRY / COND</i>		
Humidity absorption	1.8 / *	%	Sim. to ISO 62

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Density	1630 / –	kg/m ³	ISO 1183