

Stanyl® TW242FM10

PA46-(GF+MF)50

50% Glass/Mineral Reinforced, Heat Stabilized

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Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	0.2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.25 / *	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	14500 / -	MPa	ISO 527-1/-2
Stress at break	160 / -	MPa	ISO 527-1/-2
Strain at break	2 / -	%	ISO 527-1/-2
Flexural modulus	11000 / -	MPa	ISO 178
Charpy notched impact strength (+23°C)	6 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4.5 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	6 / -	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	4 / -	kJ/m ²	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)	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			
	dry / cond		
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1630 / -	kg/m ³	ISO 1183