Stanyl®

Stanyl® TW241F5

PA46-GF25

Heat Stabilized, 25% Glass Reinforced, Lubricated

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 / -	MPa	ISO 527-1/-2
Tensile modulus (120°C)	4700 / -	MPa	ISO 527-1/-2
Tensile modulus (180°C)	4300	MPa	ISO 527-1/-2
Stress at break	190 / -	MPa	ISO 527-1/-2
Stress at break (120°C)	105 / -	MPa	ISO 527-1/-2
Stress at break (180°C)	88	MPa	ISO 527-1/-2
Strain at break	3.3 / -	%	ISO 527-1/-2
Strain at break (120°C)	7 / -	%	ISO 527-1/-2
Strain at break (180°C)	7	%	ISO 527-1/-2
Flexural modulus	8400 / -	MPa	ISO 178
Flexural strength	280 / -	MPa	ISO 178
Charpy notched impact strength (+23°C)	9.5 / -	kJ/m²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	280 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.5 / *	E-4/°C	ISO 11359-1/-2

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Property Data

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Properties	Typical Data	Unit	Test Method
Other properties	dry / cond		
Humidity absorption	2.8 / *	%	Sim. to ISO 62
Density	1350 / -	kg/m³	ISO 1183

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