

Stanyl® TW241B3

PA46-CF15

15% Carbon Reinforced, Heat Stabilized, Lubricated

Print Date: 2019-10-16

Properties	Typical Data	Unit	Test Method
Rheological properties dry / cond			
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.1 / *	%	ISO 294-4
Mechanical properties dry / cond			
Tensile modulus	13000 / -	MPa	ISO 527-1/-2
Stress at break	185 / 110	MPa	ISO 527-1/-2
Strain at break	2 / 4	%	ISO 527-1/-2
Flexural modulus	10500 / 5800	MPa	ISO 178
Flexural strength	260 / 150	MPa	ISO 178
Charpy impact strength (+23°C)	45 / 70	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40 / 40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 12	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	4.5 / 4.5	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	5 / 12	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	4.5 / 4.5	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)	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

Property Data

Stanyl[®] TW241B3

Print Date: 2019-10-16

Properties	Typical Data	Unit	Test Method
Humidity absorption	3.15 / *	%	Sim. to ISO 62
Density	1220 / -	kg/m ³	ISO 1183