

Stanyl® TC502

PA46

Thermal conductive material

Print Date: 2019-10-15

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage (parallel)	0.6 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	9000 / -	MPa	ISO 527-1/-2
Stress at break	65 / -	MPa	ISO 527-1/-2
Strain at break	1.1 / -	%	ISO 527-1/-2
Thermal properties			
	dry / cond		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Coeff. of linear therm. expansion (parallel)	0.25 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.35 / *	E-4/°C	ISO 11359-1/-2
Thermal conductivity in plane	14	W/(m K)	ASTM E1461
Thermal conductivity through plane	2.1	W/(m K)	ASTM E1461
Electrical properties			
	dry / cond		
Volume resistivity	10000 / -	Ohm*m	IEC 60093
Other properties			
	dry / cond		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1420 / -	kg/m ³	ISO 1183