

Stanyl® TS271A1

PA46-AF

Aramid fibre reinforced, Wear and Friction Modified

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage [parallel]	1.5 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.5 / *	%	Sim. to ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	2800 / -	MPa	ISO 527-1/-2
Stress at break	90 / -	MPa	ISO 527-1/-2
Strain at break	13 / -	%	ISO 527-1/-2
Flexural modulus	3100 / -	MPa	ISO 178
Flexural strength	125 / -	MPa	ISO 178
Charpy notched impact strength (+23°C)	6 / -	kJ/m ²	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)	200 / *	°C	ISO 75-1/-2
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Relative Temperature Index – electrical	65	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
Other properties	dry / cond		
Humidity absorption	2.9 / *	%	Sim. to ISO 62
Density	1270 / -	kg/m ³	ISO 1183

