

Stanyl[®] TS271A1

(PA46+PTFE)–AF

Aramid fibre reinforced, Wear and Friction Modified

Stanyl[®] TS271A1 is a aramid–reinforced friction–modified high heat polyamide that offers extremely low abrasion for gear & bushing applications

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
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