

Stanyl® TS271A1

(PA46+PTFE)–AF

Aramid fibre reinforced, Wear and Friction Modified

Print Date: 2024–03–27

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/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)	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/m³	ISO 1183

All the trademarks mentioned here are trademarks of Envalior.

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

Copyright © Envalior 2024. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.