

Stanyl[®] TS250F8

PA46–GF40 FR(17)

40% Glass Reinforced, Flame Retardant, Heat Stabilized

Print Date: 2024–09–17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	DRY / COND		
Molding shrinkage [parallel]	0.3 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	0.9 / *	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES			
	DRY / COND		
Tensile modulus	16000 / 10500	MPa	ISO 527–1/–2
Tensile modulus (120°C)	8500 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	6200	MPa	ISO 527–1/–2
Stress at break	200 / 130	MPa	ISO 527–1/–2
Stress at break (120°C)	110 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	90	MPa	ISO 527–1/–2
Strain at break	2 / 2.7	%	ISO 527–1/–2
Strain at break (120°C)	3 / –	%	ISO 527–1/–2
Strain at break (160°C)	5	%	ISO 527–1/–2
Flexural modulus	14000 / 10000	MPa	ISO 178
Flexural modulus (120°C)	8500	MPa	ISO 178
Flexural modulus (160°C)	5500	MPa	ISO 178
Flexural strength	300 / 250	MPa	ISO 178
Flexural strength (120°C)	230	MPa	ISO 178
Flexural strength (160°C)	200	MPa	ISO 178
Charpy notched impact strength (+23°C)	14 / 14	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	13 / 13	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	13 / 13	kJ/m ²	ISO 180/1A
Izod notched impact strength (–40°C)	12 / 12	kJ/m ²	ISO 180/1A

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.

Property Data

Stanyl® TS250F8

Print Date: 2024-09-17

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
THERMAL PROPERTIES			
<i>DRY / COND</i>			
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
Temp. of deflection under load (0.45 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
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	–	–
Burning Behav. at 3.0 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	–	–
Relative Temperature Index – electrical	140	°C	UL746B
RTI electrical (Thickness (1) tested)	0.75	mm	UL746B
Thermal Index 5000 hrs	163	°C	IEC 60216/ISO 527-1/-2
ELECTRICAL PROPERTIES			
<i>DRY / COND</i>			
Volume resistivity	>1E13 / 1E8	Ohm*m	IEC 62631-3-1
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	350 / –	V	IEC 60112
Relative permittivity (100Hz)	4.3 / 12	–	IEC 62631-2-1
Relative permittivity (1 MHz)	4 / 4.5	–	IEC 62631-2-1
Relative permittivity (1GHz)	3.6 / 3.8	–	IEC 61189-2-721
OTHER PROPERTIES			
<i>DRY / COND</i>			
Humidity absorption	1.3 / *	%	Sim. to ISO 62
Density	1770 / –	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.