

# Stanyl® TW250F6

## PA46–GF30 FR(17)

30% Glass Reinforced, Heat Stabilized, Flame Retardant

Print Date: 2024–06–11

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>		<b>DRY / COND</b>	
Molding shrinkage [parallel]	0.4 / *	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1.1 / *	%	Sim. to ISO 294–4
<b>MECHANICAL PROPERTIES</b>		<b>DRY / COND</b>	
Tensile modulus	12000 / 8000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	7200 / –	MPa	ISO 527–1/–2
Tensile modulus (160°C)	6500	MPa	ISO 527–1/–2
Stress at break	180 / 115	MPa	ISO 527–1/–2
Stress at break (120°C)	105 / –	MPa	ISO 527–1/–2
Stress at break (160°C)	90	MPa	ISO 527–1/–2
Strain at break	2.4 / 3.5	%	ISO 527–1/–2
Strain at break (120°C)	4.5 / –	%	ISO 527–1/–2
Strain at break (160°C)	5	%	ISO 527–1/–2
Flexural modulus	11000 / 7300	MPa	ISO 178
Flexural modulus (120°C)	6500	MPa	ISO 178
Flexural modulus (160°C)	5000	MPa	ISO 178
Flexural strength	260 / 190	MPa	ISO 178
Flexural strength (120°C)	170	MPa	ISO 178
Flexural strength (160°C)	140	MPa	ISO 178
Charpy impact strength (+23°C)	60 / 60	kJ/m²	ISO 179/1eU
Charpy impact strength (–30°C)	50 / 50	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / 11	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	10 / 10	kJ/m²	ISO 179/1eA

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.

Stanyl® TW250F6

Print Date: 2024-06-11

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Izod notched impact strength (+23°C)	11 / 11	kJ/m²	ISO 180/1A
Izod notched impact strength (-40°C)	11 / 11	kJ/m²	ISO 180/1A

THERMAL PROPERTIES	DRY / COND		
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)	0.55 / *	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	177	°C	IEC 60216/ISO 527-1/-2

ELECTRICAL PROPERTIES	DRY / COND		
Volume resistivity	1E12 / 1000000	Ohm*m	IEC 62631-3-1
Electric strength	30 / -	kV/mm	IEC 60243-1
Comparative tracking index	175 / -	V	IEC 60112

OTHER PROPERTIES	DRY / COND		
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1670 / -	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.