

## Stanyl<sup>®</sup> TS250F8 PA46-GF40 FR

40% Glass Reinforced, Flame Retardant, Heat Stabilized

		Print Date: 2017-11-03
Typical Data	Unit	Test Method
dry / cond		
0.3 / *	%	Sim. to ISO 294-4
0.9 / *	%	Sim. to ISO 294-4
dry / cond		
15000 / 12000	MPa	ISO 527-1/-2
9500	MPa	ISO 527-1/-2
6500	MPa	ISO 527-1/-2
195 / 140	MPa	ISO 527-1/-2
110	MPa	ISO 527-1/-2
90	MPa	ISO 527-1/-2
2 / 2.6	%	ISO 527-1/-2
3	%	ISO 527-1/-2
3	%	ISO 527-1/-2
13000 / 11000	MPa	ISO 178
8500	MPa	ISO 178
5500	MPa	ISO 178
11 / 12	kJ/m²	ISO 179/1eA
11 / 11	kJ/m²	ISO 179/1eA
12 / 13	kJ/m²	ISO 180/1A
12 / 12	kJ/m²	ISO 180/1A
	dry / cond 0.3 / * 0.9 / * dry / cond 15000 / 12000 9500 6500 195 / 140 110 90 2 / 2.6 3 3 13000 / 11000 8500 5500 11 / 12 11 / 11 12 / 13	dry / cond   0.3 / * %   0.9 / * %   dry / cond    15000 / 12000 MPa   9500 MPa   195 / 140 MPa   10 MPa   90 MPa   3 %   3 %   3 %   3 %   13000 / 11000 MPa   8500 MPa   5500 MPa   11 / 12 kJ/m²   11 / 11 kJ/m²   12 / 13 kJ/m²

Thermal properties	dry / cond		
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3

Akulon®, Arnitel®, Arnitel®, EcoPaXX®, ForTii®, Novamid®, Stanyl® and Xytron™ are trademarks of DSM. All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information, or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequences from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. This document replaces all previous versions relating to this subject.

previous versions relating to this subject. Copyright © DSM 2017. 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 DSM.



## Property Data Stanyl<sup>®</sup> TS250F8

			Print Date: 2017-11-03	
Properties	Typical Data	Unit	Test Method	
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 thickness h	V-0 / *	class	IEC 60695-11-10	
Thickness tested	0.75 / *	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	dry / cond		
Volume resistivity	>1E13 / 1E8	Ohm*m	IEC 60093
Electric strength	30 / 20	kV/mm	IEC 60243-1
Comparative tracking index	350 / -	V	IEC 60112
Relative permittivity (100Hz)	4.3 / 12	-	IEC 60250
Relative permittivity (1 MHz)	4 / 4.5	-	IEC 60250
Relative permittivity (1GHz)	3.6 / 3.8	-	IEC 60250
Other properties	dry / cond		
Humidity absorption	1.25 / *	%	Sim. to ISO 62
Density	1770 / -	kg/m <sup>3</sup>	ISO 1183

Akulon®, Arnitel®, EcoPaXX®, ForTii®, Novamid®, Stanyl® and Xytron™ are trademarks of DSM. All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatseever in respect of application, processing or use made of the aforementioned information, or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequences from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. This document replaces all previous versions relating to this subject. Copyright © DSM 2017. 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 DSM.

## Print Date: 2017-11-03