

Stanyl® TW363

PA46-I

Heat Stabilized, Impact Modified

Print Date: 2017-11-03

Properties	Typical Data	Unit	Test Method
Rheological properties			
	dry / cond		
Molding shrinkage [parallel]	2 / *	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2 / *	%	Sim. to ISO 294-4
Mechanical properties			
	dry / cond		
Tensile modulus	1850 / 600	MPa	ISO 527-1/-2
Tensile modulus (120°C)	400	MPa	ISO 527-1/-2
Tensile modulus (160°C)	350	MPa	ISO 527-1/-2
Yield stress	60 / 45	MPa	ISO 527-1/-2
Yield stress (120°C)	35	MPa	ISO 527-1/-2
Yield stress (160°C)	30	MPa	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Nominal strain at break (120°C)	>50	%	ISO 527-1/-2
Nominal strain at break (160°C)	>50	%	ISO 527-1/-2
Flexural modulus	1800 / 550	MPa	ISO 178
Flexural modulus (120°C)	400	MPa	ISO 178
Flexural modulus (160°C)	350	MPa	ISO 178
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	75 / 125	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	26 / 30	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	80 / 125	kJ/m ²	ISO 180/1A
Izod notched impact strength (-40°C)	40 / 40	kJ/m ²	ISO 180/1A

Akulon®, Arnite®, 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.

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[®] TW363

Print Date: 2017-11-03

Properties	Typical Data	Unit	Test Method
Thermal properties dry / cond			
Melting temperature (10°C/min)	295 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	90 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	200 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	1.6 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.8 / *	E-4/°C	ISO 11359-1/-2
Thermal Index 5000 hrs	135	°C	IEC 60216/ISO 527-1/-2
Electrical properties dry / cond			
Volume resistivity	1E13 / 1E7	Ohm*m	IEC 60093
Electric strength	25 / 15	kV/mm	IEC 60243-1
Comparative tracking index	475 / -	V	IEC 60112
Relative permittivity (100Hz)	3.6 / 14	-	IEC 60250
Relative permittivity (1 MHz)	3.2 / 4	-	IEC 60250
Other properties dry / cond			
Humidity absorption	2.95 / *	%	Sim. to ISO 62
Density	1100 / -	kg/m ³	ISO 1183

Akulon®, Arnite®, 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.

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.

