

## DESMODUR® TT1xx + BAYTEC® XL1705 free TDI content < 0,5 % by weight

## 80 Shore A to 95 Shore A

NATURE OF COMPONENTS						
Prepolymer nature Nature of chain extender and other components						
TDI - PTMEG	BAYTEC® XL 1705	Amine chain extender				

CHARACTERISTICS OF COMPONENTS						
	Unit	DESMODUR® TT130	DESMODUR® TT142	DESMODUR® TT146	DESMODUR® TT160	BAYTEC® XL1705
% NCO	%	3.00 (± 0.1)	4.20 (± 0.2)	4.70 (± 0.2)	5.90 (± 0.2)	-
Physical appearance at room temperature	-	solid	liquid	solid	liquid	liquid
Processing temperature	°C	80	80	80	80	30
Viscosity at processing temperature	cps	1300	900	895	700	300
Specific gravity at processing temperature	-	1.01	1.01	1.04	1.03	1.21

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)						
Prepolymer			DESMODUR® TT130	DESMODUR® TT142	DESMODUR® TT146	DESMODUR® TT160
Chain extender			BAYTEC® XL1705	BAYTEC® XL1705	BAYTEC® XL1705	BAYTEC® XL1705
Hardness at 23°C	ISO 48-4	Shore	80 A	87 A	90 A	95 A
10% Modulus	DIN 53504	MPa	1.7	3.0	3.3	7.9
100% Modulus	DIN 53504	MPa	4.7	8.5	9.4	17.4
200% Modulus	DIN 53504	MPa	6.4	12.1	13.0	24.5
300% Modulus	DIN 53504	MPa	8.1	18.6	18.8	36.4
Tensile strength	DIN 53504	MPa	29	47	40	54
Elongation	DIN 53504	%	560	400	420	385
Tear strength : without nick	ISO 34-1	kN/m	74	94	114	155
Tear strength : with nick	ISO 34-1	kN/m	23	30	42	68
Resilience	DIN 53512	%	67	50	42	40
Abrasion loss	ISO 4649	mm³	25	40	20	30
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%	27	37	36	23
Hardness at -5°C	ISO 48-4	Shore	82 A	88 A	96 A	60 D
Hardness at 80°C	ISO 48-4	Shore	79 A	86 A	89 A	95 A
Specific gravity			1.05	1.10	1.11	1.14

Depending on process conditions, curing and post curing temperature, hardness may vary from ± 2 Shore.

Labelling: This system data sheet is only valid in combination with the corresponding components current safety data sheets! Any updating of safety relevant information – in accordance with EU directives – will only be reflected in the Safety Data Sheets. copies of which will be revised and distributed. For further technical information relating to safety. the Safety Data Sheets should be consulted.



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STORAGE AND USE PRECAUTIONS								
	Unit	DESMODUR® TT130	DESMODUR® TT142	DESMODUR® TT146	DESMODUR® TT160	BAYTEC® XL1705		
Optimal storage temperature of the drums	°C	< 30	< 30	< 30	< 30	< 30		
Storage time (sealed drum)	Month	12	12	12	12	12		
PREPARATION BEFORE PROCESSING								
Preheating time / preheating temperature	hr / °C	12 / 60						
Homogenization before processing required	-	no	no	no	no	no		
Degassing required	-	yes	yes	yes	yes	no		

Keep from heat and protect against moisture.

PROCESSING							
Prepolymer		DESMODUR®TT130	DESMODUR®TT142	DESMODUR® TT146	DESMODUR®TT160		
Chain extender		BAYTEC® XL1705	BAYTEC® XL1705	BAYTEC® XL1705	BAYTEC® XL1705		
Hardness	Shore	80 A	87 A	90 A	95 A		
Prepolymer processing temperature	°C	80					
BAYTEC® XL1705 processing temperature	°C	30					
Parts by weight of prepolymer		100	100	100	100		
Parts by weight of BAYTEC® XL1705		7.3	10.2	11.2	14.3		
MOLDING AND CURING							
Mold temperature	°C	100					
Pot life (400g mixture)	min	9'	5'	5'	4'		
Demolding time	min	45'	25'	25'	20'		
Post-curing	hr / °C	16 / 100					

Use of degassing agent is recommended for hand casting.

A one week aging at room temperature is required to obtain the optimal properties of the elastomer.

The following information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our advice concerning safety does not release you from the obligation to determine the safety measures designed for your production environment, that we may not be able to anticipate, to check abilities and to inform the people who will use, handle or be in contact with these products.

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