



# DESMODUR® TG2xx + BAYTEC® XL 1705

85 à 95 Shore A

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

CHARACTERISTICS OF COMPONENTS						
	Unit	DESMODUR® TG244	DESMODUR® TG250	DESMODUR® TG256	DESMODUR® TG263	BAYTEC® XL 1705
% NCO	%	4.35 (± 0.2)	5.35 (± 0.2)	5.90 (± 0.2)	6.25 (± 0.2)	-
Physical appearance at room temperature	-	liquid	liquid	liquid	liquid	liquid
Processing temperature	°C	70	70	70	70	30
Viscosity at processing temperature	cps	1000	600	600	1200	300
Specific gravity at processing temperature	-	1.01	1.02	1.04	1.06	1.21

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)						
Prepolymer			DESMODUR® TG244	DESMODUR® TG250	DESMODUR® TG256	DESMODUR® TG263
Chain extender			BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705
Hardness at 23°C	ISO 48-4	Shore	85 A	90 A	92 A	95 A
10% Modulus	DIN 53504	MPa	2.7	3.4	4.3	6.4
100% Modulus	DIN 53504	MPa	7.7	9.5	11.7	15.1
200% Modulus	DIN 53504	MPa	9.5	11.3	14.0	19.2
300% Modulus	DIN 53504	MPa	11.2	13.3	17.2	24.4
Tensile strength	DIN 53504	MPa	25	25	26	30
Elongation	DIN 53504	%	550	500	420	370
Tear strength : without nick	ISO 34-1	kN/m	84	88	92	105
Tear strength : with nick	ISO 34-1	kN/m	35	37	40	50
Resilience	DIN 53512	%	35	34	32	29
Abrasion loss	ISO 4649	mm³	40	45	45	45
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%	46	46	47	53
Hardness at -5°C	ISO 48-4	Shore	90 A	94 A	97 A	99 A
Hardness at 80°C	ISO 48-4	Shore	86 A	89 A	91 A	93 A
Specific gravity			1.11	1.12	1.12	1.14

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

**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® TG244	DESMODUR® TG250	DESMODUR® TG256	DESMODUR® TG263	BAYTEC® XL 1705
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® TG244	DESMODUR® TG250	DESMODUR® TG256	DESMODUR® TG263	
Chain extender		BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	
Hardness	Shore	85 A	90 A	92 A	95 A	
Prepolymer processing temperature	°C	70				
BAYTEC® XL 1705 processing temperature	°C	30				
Parts by weight of prepolymer		100	100	100	100	
Parts by weight of BAYTEC® XL 1705		10.5	12.9	14.3	15.1	
MOLDING AND CURING						
Mold temperature	°C	100				
Pot life (400g mixture)	min	5'	3'	2'40"	2'10"	
Demolding time	min	40'	30'	30'	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.

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