DESMODUR® LU-T + BAYTEC® XL 1705
free TDI content < 0,1 % by weight

78 Shore A to
75 Shore D

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® LU-T80	DESMODUR® LU-T90	DESMODUR® LU-T93	DESMODUR® LU-T95	DESMODUR® LU-T60D	DESMODUR® LU-T70D	DESMODUR® LU-T75D	BAYTEC® XL 1705
% NCO	%	3.2 (±0.2)	4.2 (±0.2)	5.2 (±0.2)	6.1 (±0.2)	7.5 (±0.2)	8.5 (±0.2)	9.45 (±0.2)	-
Physical appearance at room temperature	-	solid	liquid	liquid	liquid	liquid	liquid	liquid	liquid
Processing temperature	°C	80	70	70	70	60	60	60	30
Viscosity at processing temperature	cps	600	900	900	450	750	850	950	300
Specific gravity at processing temperature	-	1.00	1.01	1.01	1.03	1.06	1.09	1.10	1.21

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)

Prepolymer			DESMODUR® LU-T80	DESMODUR® LU-T90	DESMODUR® LU-T93	DESMODUR® LU-T95	DESMODUR® LU-T60D	DESMODUR® LU-T70D	DESMODUR® LU-T75D
Chain extender			BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705
Hardness at 23°C	**ISO 48-4**	**Shore**	**78 A**	**87 A**	**93 A**	**95 A**	**60 D**	**70 D**	**75 D**
10% Modulus	DIN 53504	MPa	1.6	2.7	4.6	6.2	13.6	27.4	36.9
100% Modulus	DIN 53504	MPa	4.8	7.6	11.5	14.8	21.7	35.7	36.9
200% Modulus	DIN 53504	MPa	6.4	9.7	14.5	18.9	28.9	43.1	43.1
300% Modulus	DIN 53504	MPa	7.3	12.1	20	26.7	39.8	-	-
Tensile strength	DIN 53504	MPa	20	42	47	45	50	52	53
Elongation	DIN 53504	%	600	540	430	400	365	274	285
Tear strength : without nick	ISO 34-1	kN/m	70	85	117	110	132	175	179
Tear strength : with nick	ISO 34-1	kN/m	28	40	48	57	76	115	119
Resilience	DIN 53512	%	52	48	50	38	39	40	41
Abrasion loss	ISO 4649	mm³	60	60	60	60	70	80	85
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%	37	32	43	46	-	-	-
Hardness at -5°C	ISO 48-4	Shore	80 A	89 A	95 A	97 A	65 D	73 D	79 D
Hardness at 80°C	ISO 48-4	Shore	78 A	87 A	92 A	94 A	53 D	62 D	67 D
Specific gravity			1.05	1.07	1.10	1.10	1.13	1.14	1.14

Depending on process conditions, curing and post curing temperature, hardness may vary from ± 3 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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75 Shore D

STORAGE AND USE PRECAUTIONS									
	Unit	DESMODUR® LU-T80	DESMODUR® LU-T90	DESMODUR® LU-T93	DESMODUR® LU-T95	DESMODUR® LU-T60D	DESMODUR® LU-T70D	DESMODUR® LU-T75D	BAYTEC® XL 1705
Optimal storage temperature of the drums	°C	< 30	< 30	< 30	< 30	< 30	< 30	< 30	< 30
Storage time (sealed drum)	Month	12	12	12	12	12	12	12	12
PREPARATION BEFORE PROCESSING									
Preheating time / preheating temperature	hr / °C	12 / 60				6 / 60			-
Homogenization before processing required	-	no	no	no	no	no	no	no	no
Degassing required	-	yes	yes	yes	yes	yes	yes	yes	no

Keep from heat and protect against moisture.

PROCESSING								
Prepolymer		**DESMODUR® LU-T80**	**DESMODUR® LU-T90**	**DESMODUR® LU-T93**	**DESMODUR® LU-T95**	**DESMODUR® LU-T60D**	**DESMODUR® LU-T70D**	**DESMODUR® LU-T75D**
Chain extender		**BAYTEC® XL 1705**	**BAYTEC® XL 1705**	**BAYTEC® XL 1705**	**BAYTEC® XL 1705**	**BAYTEC® XL 1705**	**BAYTEC® XL 1705**	**BAYTEC® XL 1705**
Hardness	**Shore**	**78 A**	**87 A**	**93 A**	**95 A**	**60 D**	**70 D**	**75 D**
Prepolymer processing temperature	°C	80		70		60		
BAYTEC® XL 1705 processing temperature	°C	30						
Parts by weight of prepolymer		**100**	**100**	**100**	**100**	**100**	**100**	**100**
Parts by weight of BAYTEC® XL 1705		**7.7**	**10.2**	**12.6**	**14.8**	**17.7**	**20.6**	**22.3**
MOLDING AND CURING								
Mold temperature	°C		100					
Pot life (400g mixture)	min	10'30''	8'15''	5''	3'15''	2'	1'35''	1'30''
Demolding time	min	70'	30'	25'	25'	15'	10'	10'
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.