



DESMODUR® LU-T + BAYTEC® XL 1705 (BLENDS)

free TDI content < 0,1 % by weight

87 Shore A to
60 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-T90	DESMODUR® LU-T60D	BAYTEC® XL 1705
% NCO	%	4.2 (±0.2)	7.5 (±0.2)	-
Physical appearance at room temperature	-	liquid	liquid	liquid
Processing temperature	°C	70	60	30
Viscosity at processing temperature	cps	900	750	300
Specific gravity at processing temperature	-	1.01	1.06	1.21

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)						
Prepolymer			DESMODUR® LU-T90	DESMODUR® LU-T 90 : 75 % DESMODUR® LU-T 60D : 25 %	DESMODUR® LU-T 90 : 40 % DESMODUR® LU-T 60D : 60 %	DESMODUR® LU-T60D
Chain extender			BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705
Hardness at 23°C	ISO 48-4	Shore	87 A	90 A	95 A	60 D
10% Modulus	DIN 53504	MPa	2.7	3.9	7.4	13.6
100% Modulus	DIN 53504	MPa	7.6	9.2	14.2	21.7
200% Modulus	DIN 53504	MPa	9.7	11.9	19.5	28.9
300% Modulus	DIN 53504	MPa	12.1	16.5	32.1	39.8
Tensile strength	DIN 53504	MPa	42	57	57	50
Elongation	DIN 53504	%	540	470	390	365
Tear strength : without nick	ISO 34-1	kN/m	85	110	139	132
Tear strength : with nick	ISO 34-1	kN/m	40	43	60	76
Resilience	DIN 53512	%	55	49	43	39
Abrasion loss	ISO 4649	mm³	60	40	46	70
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%	45	52	59	-
Hardness at -5°C	ISO 48-4	Shore	89 A	94 A	98 A	65 D
Hardness at 80°C	ISO 48-4	Shore	85 A	88 A	94 A	53 D
Specific gravity			1.07	1.09	1.10	1.13

Depending on process conditions, curing and post curing temperature, hardness may vary with a derivation of ± 2 Shore A or ± 2 Shore D.

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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Covestro Elastomers SAS is certified ISO 9001 : 2008

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

Keep from heat and protect against moisture.

PROCESSING					
Prepolymer		DESMODUR® LU-T90	DESMODUR® LU-T 90 : 75 % DESMODUR® LU-T 60D : 25 %	DESMODUR® LU-T 90 : 40 % DESMODUR® LU-T 60D : 60 %	DESMODUR® LU-T60D
Chain extender		BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705	BAYTEC® XL 1705
Hardness	Shore	87 A	90 A	95 A	60 D
DESMODUR® LU-T90 processing temperature	°C	70	70	70	-
DESMODUR® LU-T60D processing temperature	°C	-	60	60	60
BAYTEC® XL 1705 processing temperature	°C			30	
Parts by weight of prepolymer				100	
Parts by weight of BAYTEC® XL 1705		10.2	12.1	14.7	17.7
MOLDING AND CURING					
Mold temperature	°C			100	
Pot life (400g mixture)	min	8'15''	5'30''	4'	2'
Demolding time	min	30'	30'	20'	15'
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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