

NATURE OF COMPONENTS								
Prepolymer nature	Nat	Nature of chain extender and other components						
MDI- Caprolacto	BAY	YTEC [®] XL AL905		Alcohol chain extender				
CHARACTERISTICS OF COMP	ONENTS							
	Unit	DESMODUR® ML3463	DESMODUR [®] ML3474	DESMODUR® ML3486	DESMODUR® ML3497	DESMODUR [®] ML34109	BAYTEC [®] XL AL905	
% NCO	%	6.3 (± 0.2)	7.4 (± 0.2)	8.6 (± 0.2)	9.7 (± 0.2)	10.9 (± 0.2)	-	
Physical appearance at room temperature	-	solid	solid	liquid	liquid	liquid	solid	
Processing temperature	°C	80	80	80	80	70	45	
Viscosity at processing temperature	cps	2000	1500	900	700	700	30	
Specific gravity at processing temperature	-	1.11	1.12	1.12	1.12	1.13	1.01	

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)							
Prepolymer			DESMODUR [®] ML3463	DESMODUR® ML3474	DESMODUR® ML3486	DESMODUR [®] ML3497	DESMODUR [®] ML34109
Chain extender			BAYTEC [®] XL AL905	BAYTEC [®] XL AL905	BAYTEC [®] XL AL905	BAYTEC [®] XL AL905	BAYTEC [®] XL AL905
Hardness at 23°C	ISO 48-4	Shore	80 A	85 A	90 A	93 A	95 A
10% Modulus	DIN 53504	MPa	1.5	2.2	2.9	4.3	4.8
100% Modulus	DIN 53504	MPa	4.7	6.2	7.5	9.9	12
200% Modulus	DIN 53504	MPa	7.4	9.2	11.7	13.9	18.7
300% Modulus	DIN 53504	MPa	12.5	15.4	20.0	20.0	30.0
Tensile strength	DIN 53504	MPa	50	50	50	50	48
Elongation	DIN 53504	%	440	440	440	440	415
Tear strength : without nick	ISO 34-1	kN/m	80	97	110	140	136
Tear strength : with nick	ISO 34-1	kN/m	30	38	49	70	75
Resilience	DIN 53512	%	59	58	54	52	40
Abrasion loss	ISO 4649	mm³	25	25	25	25	30
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%	22	25	23	22	20
Hardness at -5°C	ISO 48-4	Shore	83 A	88 A	93 A	95 A	97A
Hardness at 80°C	ISO 48-4	Shore	74 A	79 A	85 A	90 A	92 A
Specific gravity			1.14	1.15	1.17	1.08	1.18

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.



DESMODUR[®] ML34XX + BAYTEC[®] XL AL905 (SD11-3) 80-95 Shore A

STORAGE AND USE PRECAUTIONS								
	Unit	DESMODUR [®] ML3463	DESMODUR [®] ML3474	DESMODUR [®] ML3486	DESMODUR [®] ML3497	DESMODUR [®] ML34109	BAYTEC [®] XL AL905	
Optimal storage temperature of the drums	°C	< 30	< 30	< 30	< 30	< 30	< 30	
Storage time (sealed drum)	Month	12	12	12	12	12	12	
Preheating time / preheating temperature	hr / °C	12/80	12/80	12/80	12/80	12/80	12/45	
Homogenization before processing required	-	no	no	no	no	no	no	
Degassing required	-	yes	yes	yes	yes	yes	yes	

Keep from heat and protect against moisture.

PROCESSING									
Prepolymer		DESMODUR [®] ML3463	DESMODUR [®] ML3474	DESMODUR [®] ML3486	DESMODUR [®] ML3497	DESMODUR® ML34109			
Chain extender		BAYTEC [®] XL AL905							
Hardness	Shore	80 A	85 A	90 A	93 A	95 A			
Prepolymer processing temperature	°C	80	80	80	80	70			
BAYTEC [®] XL AL905 processing temperature	°C	45							
Parts by weight of prepolymer		100	100	100	100	100			
Parts by weight of BAYTEC [®] XL AL905		6.6	7.8	9	10.2	11.45			
SD11-3 catalyst % / total (by weight) (catalyst at the head)		0.14	0.12	0.1	0.09	0.08			
MOLDING AND CURING	•		·	·	·				
Mold temperature	°C	110							
Pot life (400g mixture) *	min	3'30	3'30	2'30	2'30	2'15			
Demolding time	min	30'	30'	20'	20'	20'			
Post-curing	hr - °C	16 / 110							

Use of degassing agent is recommended for hand casting.

* Possibility to shorten pot life by increasing the catalyst quantity.

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.