



Desmodur MAX-T XX-SA + Baytec XL 1705

82– 95 Shore A

NATURE OF COMPONENTS		
Prepolymer Nature	Nature of chain extender and other components	
MDI - PTMEG	Baytec XL-1705	Amine Chain Extender

CHARACTERISTICS OF COMPONENTS						
	Unit	Desmodur MAX-T D0410/7 SA	Desmodur MAX-T D0910/3 SA	Desmodur MAX-T 40-SA	Desmodur MAX-T 60-SA	Baytec XL 1705
% NCO	%	3.05 (± 0.2)	3.40 (± 0.2)	4.05 (± 0.2)	6.05 (± 0.2)	-
Physical appearance at 25°C	-	solid	solid	liquid	liquid	liquid
Processing temperature	°C	80	80	80	80	30
Viscosity at processing temperature	cps	1850	1500	1350	650	690
Sp. Gr. at 20°C	-	1.04	1.04	1.04	1.04	1.21

CHARACTERISTICS	
Properties	
-	Easy processing of large parts
-	Superior tear resistance
-	Excellent hydrolysis resistance
Comments	
-	Complements TDI prepolymer chemistry with beneficial effect of MDI monomer
-	Patented Desmodur MAX technology
-	Knittable
-	Liquid curative

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)						
Prepolymer			Desmodur MAX-T D0410/7 SA	Desmodur MAX-T D0910/3 SA	Desmodur MAX-T 40 SA	Desmodur MAX-T 60 SA
Chain extender	ASTM		Baytec XL 1705	Baytec XL 1705	Baytec XL 1705	Baytec XL 1705
Shore Hardness	D 2240		82A	88A	91A	95A
Taber Abrasion (H-18 Wheel, 1000g load, 1000 cycles)	D 4060	mg loss	13	19	63	84
Bashore Resilience	D 2632	%	62	48	49	43
Tensile Strength	D 412	lb/in ²	4238	3680	5309	5041
Tensile Stress	D 412					
100% Elongation		lb/in ²	685	1077	1222	1823
200% Elongation		lb/in ²	916	1327	1595	2383
300% Elongation		lb/in ²	1138	1538	2018	3215
Ultimate Elongation	D 412	%	704	621	598	422
Tear Strength: Die C	D 624	lbf/in	443	548	556	597
Split Tear	D 3489	lbf/in	181	241	282	367
Compression Set (22 hrs at 70°C)	D 395-B	%	22	33	26	33

Health and Safety Information: Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this material. Before working with this product, you must read and become familiar with the available information on its hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult Covestro LLC for more information.



Desmodur MAX-T XX-SA + Baytec XL 1705

82– 95 Shore A

STORAGE AND USE PRECAUTIONS						
	Unit	Desmodur MAX-T D0410/7 SA	Desmodur MAX-T D0910/3 SA	Desmodur MAX-T 40 SA	Desmodur MAX-T 60 SA	Baytec XL 1705
Optimal storage temperature of the drums	°C	18 – 30	18 - 30	18 - 30	18 - 30	< 30
Storage time (sealed drum)	Months	12	12	12	12	12
PREPARATION BEFORE PROCESSING						
Preheating time / preheating temperature	hr / °C	24 / 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 MAX-T D0410/7 SA	Desmodur MAX-T D0910/3 SA	Desmodur MAX-T 40 SA	Desmodur MAX-T 60 SA	
Chain extender		XL 1705	XL 1705	XL 1705	XL 1705	
Shore Hardness		82A	88A	91A	95A	
Desmodur Prepolymer processing temperature	°C	80				
Baytec XL 1705 processing temperature	°C	30				
Parts by weight of Desmodur prepolymer		100	100	100	100	
Parts by weight of Baytec XL 1705*		7.4	8.2	9.8	14.6	
MOLDING AND CURING**						
Mold temperature	°C	100				
Pot life (400g mixture)	min:sec	2 : 30	2 : 30	2:00	1:10	
Demolding time	min	40	30	30	30	
Post-curing***	hr - °C	24 / 100				

*Extender weights calculated for midpoint of NCO specs. Actual NCO values may vary. Hence weight of extender required should be calculated

**Use of degassing agent is recommended for hand casting

***After postcure, a 1- week aging at 25°C is required to obtain the optimal properties of the elastomer.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.