



DESMODUR® MTX6076 + BAYTEC® D24 + BAYTEC® XL B (Catalyst CATD0812-3)

60 Shore A to
76 Shore D

NATURE OF COMPONENTS		
Prepolymer nature	Nature of chain extender and other components	
MDI - Ether	BAYTEC® D24	Ester formulated polyol
	BAYTEC® XL B	Alcohol chain extender

CHARACTERISTICS OF COMPONENTS				
	Unit	DESMODUR® MTX6076	BAYTEC® D24	BAYTEC® XL B
Physical appearance at room temperature	-	liquid	solid	solid
Processing temperature	°C	40	50	40
Viscosity at processing temperature	cps	210	2000	40
Specific gravity at processing temperature	-	1.18	1.17	1.01

ELASTOMER OPTIMAL PROPERTIES (DATA GIVEN AS AN INDICATION)																
Prepolymer	DESMODUR® MTX6076															
Chain extender	BAYTEC® D24 + BAYTEC® XL B (Catalyst CATD0812-3)															
Hardness at 23°C	ISO 48-4	Shore	60 A	65 A	70 A	75 A	80 A	85 A	90 A	95 A / 50 D	55 D	60 D	65 D	70 D	73 D	76D
10% Modulus	DIN 53504	MPa	0.6	0.9	1.0	1.1	1.5	2.5	3.8	7.1	11.8	16.1	19.4	26.8	31.0	42.0
100% Modulus	DIN 53504	MPa	2.3	2.6	3.4	4.2	5.7	8.5	9.4	15.8	19.2	23.2	25.5	30.1	33.2	38.8
200% Modulus	DIN 53504	MPa	3.1	3.6	5.1	6.6	9.3	13.2	14.4	22.3	24.4	27.9	29.7	32.9	34.7	38.4
300% Modulus	DIN 53504	MPa	4.0	4.8	7.0	9.5	14.2	20.9	22.5	30.9	31.8	34.4	35.8	37.6	38.2	40.1
Tensile strength	DIN 53504	MPa	28	34	42	49	51	52	54	53	51	48	46	45	43	41
Elongation	DIN 53504	%	630	610	540	530	480	470	470	480	470	460	430	410	380	370
Tear strength : without nick	ISO 34-1	kN/m	48	60	77	94	116	142	155	195	221	240	252	284	290	299
Tear strength : with nick	ISO 34-1	kN/m	20	22	31	32	39	60	75	105	126	145	155	174	188	220
Resilience	DIN 53512	%	50	43	36	27	18	17	18	23	26	30	31	33	36	38
Abrasion loss	ISO 4649	mm³	40	35	35	35	35	35	40	40	40	40	50	60	70	80
Abrasion loss with 0,3% AAA additive	ISO 4649	mm³	15	15	15	20	20	20	25	25	25	25	30	35	40	50
Compression set (deflexion / 22 h / 70 °C)	ISO 815-1	%	33	32	23	29	21	19	20	24	-	-	-	-	-	-
Hardness at -5°C	ISO 48-4	Shore	66 A	68 A	76 A	89 A	90 A	97 A	60 D	71 D	73 D	72 D	78 D	80 D	80 D	81 D
Hardness at 80°C	ISO 48-4	Shore	52 A	56 A	62 A	68 A	78 A	80 A	82 A	89 A	91 A	93 A	94 A	97 A	51 D	54 D
Specific gravity			1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21

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® MTX6076 + BAYTEC® D24 + BAYTEC® XL B (Catalyst CATD0812-3)

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76 Shore D

STORAGE AND USE PRECAUTIONS				
	Unit	DESMODUR® MTX6076	BAYTEC® D24	BAYTEC® XL B
Optimal storage temperature of the drums	°C	20 – 25	< 30	< 30
Storage time (sealed drum)	Month	4	12	12
PREPARATION BEFORE PROCESSING				
Preheating time / preheating temperature	hr / °C	16 / 70	24 / 70	12 / 45
Homogenization before processing required	-	no	no	no
Degassing required	-	yes	yes	no

Keep from heat and protect against moisture.

Please refer to 'Handling and storage conditions' document

PROCESSING															
Prepolymer		DESMODUR® MTX6076													
Chain extender		BAYTEC® D24 + BAYTEC® XL B (Catalyst CATD0812-3)													
Hardness	Shore	60 A	65 A	70 A	75 A	80 A	85 A	90 A	95 A / 50 D	55 D	60 D	65 D	70 D	73 D	76D
Prepolymer processing temperature	°C	40													
BAYTEC® D24 processing temperature	°C	50													
BAYTEC® XL B processing temperature	°C	40													
Parts by weight of prepolymer		100	100	100	100	100	100	100	100	100	100	100	100	100	100
Parts by weight of BAYTEC® D24		290	250	210	180	150	125	110	90	80	70	65	55	50	40
Parts by weight of BAYTEC® XL B		11.1	12.9	14.7	16.1	17.4	18.5	19.2	20.1	20.6	21.0	21.2	21.7	21.9	22.4
CATD0812-3 % / total (by weight), (catalyst at the head)		0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
AAA % / total (by weight), (additive at the head)		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

MOLDING AND CURING																
Mold temperature	°C	100									110					
Pot life (on 400gr mixture)*	min	3'30"	3'30"	3'30"	3'30"	3'00"	3'00"	2'40"	2'30"	2'10"	2'00"	1'50"	1'40"	1'30"	1'30"	
Demolding time	min	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'	20'	20'	20'	
Post-curing	hr - °C	16 - 100														

* Possibility to shorten the pot life by increasing the catalyst quantity. Please consult our Sales Department for additional information.

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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