DESMODUR® MTX6076 + BAYTEC® D24 + BAYTEC® XL B (Catalyst SD2.4MF.2)

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® MTX 6076	BAYTEC® D24	BAYTEC® XL B
Physical appearance at room temperature	-	liquid	solid	solid
Processing temperature	℃	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 SD2.4MF.2)**													
Hardness at 20℃	**DIN 53505**	**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	0.5	1.0	1.1	1.5	1.9	2.7	3.8	7.2	6.7	9.9	14.6	21.6	31.8	42.0
100% Modulus	DIN 53504	MPa	1,9	2.5	3.6	5.1	5.8	7.3	9.0	13.9	14.9	17.9	21.9	27.4	33.1	38.9
200% Modulus	DIN 53504	MPa	2.4	3.1	5.1	8.0	8.4	10.3	12.5	18.9	22.5	25.8	28.6	34.3	36.7	40.3
300% Modulus	DIN 53504	MPa	3,0	4.0	7.0	13.4	14.0	15.1	18.9	27.7	35.9	40.0	40.0	46.3	45.3	-
Tensile strength	DIN 53504	MPa	22	41	44	57	60	61	62	59	59	57	55	55	46	40
Elongation	DIN 53504	%	600	600	525	525	540	545	530	510	445	415	415	365	305	280
Tear strength : without nick	ISO 34-1	kN/m	40	45	55	91	101	113	128	159	164	191	205	236	253	281
Tear strength : with nick	ISO 34-1	kN/m	20	35	36	37	39	59	72	103	107	132	161	184	209	232
Resilience	DIN 53512	%	56	55	45	28	28	23	23	23	22	25	30	30	34	38
Abrasion loss with 0,3% AAA additive	ISO 4649	mm³	40	35	35	35	35	35	40	40	50	60	80	60	60	50
Compression set (deflexion / 22 h / 70 ℃)	ISO 815-1	%	60	55	30	29	28	28	24	24	-	-	-	-	-	-
Hardness at -5℃	DIN 53505	Shore	65 A	75 A	78 A	84 A	90 A	94A	50D	65 D	68 D	72 D	78 D	80 D	80 D	84 D
Hardness at 80℃	DIN 53505	Shore	50 A	55 A	62 A	67 A	73 A	78 A	82 A	84 A	85 A	87 A	90 A	94 A	50D	58 D
Specific gravity			1.20	1.20	1.22	1.22	1.22	1.23	1.23	1.23	1.23	1.25	1.25	1.25	1.25	1.25

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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DESMODUR® MTX6076 + BAYTEC® D24 + BAYTEC® XL B (Catalyst SD2.4MF.2)

60 Shore A to 76 Shore D

STORAGE AND USE PRECAUTIONS				
	Unit	DESMODUR® MTX6076	BAYTEC® D24	BAYTEC® XL B
Optimal storage temperature of the drums	℃	20 – 25	< 30	< 30
Storage time (sealed drum)	Month	4	12	12
PREPARATION BEFORE PROCESSING				
Preheating time / preheating temperature	hr / ℃	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 SD2.4MF.2)													
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	℃	40													
BAYTEC® D24 processing temperature	℃	50													
BAYTEC® XL B processing temperature	℃	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		**300**	**260**	**220**	**180**	**165**	**145**	**130**	**100**	**90**	**80**	**70**	**60**	**50**	**40**
Parts by weight of BAYTEC® XL B		**10.7**	**12.5**	**14.3**	**16.1**	**16.7**	**17.6**	**18.3**	**19.7**	**20.1**	**20.6**	**21.0**	**21.5**	**21.9**	**22.4**
SD2.4MF.2 % / total (by weight), (catalyst at the head)		**0.5**	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
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	℃	100								110					
Pot life (on 400gr mixture)*	min	4'	4'	4'30''	5'	4'15''	4'	3'30''	3'	2'45''	2'30''	2'15''	2'	1'50''	1'40''
Demolding time	min	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'	30'
Post-curing	hr - ℃	16 - 80			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.

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.

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