



DESMODUR[®] MTQ25165 + BAYTEC[®] T10 + BAYTEC[®] XL B (Catalyst CATD0512-2)

60 to 95 Shore A

NATURE OF COMPONENTS		
Prepolymer nature	Nature of chain extender and other components	
MDI - PTMEG	BAYTEC [®] T10	Ether polyol
	BAYTEC [®] XL B	Alcohol chain extender

CHARACTERISTICS OF COMPONENTS				
	Unit	DESMODUR [®] MTQ25165	BAYTEC [®] T10	BAYTEC [®] XL B
% NCO	%	16.5 (±0.2)	-	-
Physical appearance at room temperature	-	liquid	solid	solid
Processing temperature	°C	45	45	45
Viscosity at processing temperature	cps	400	200	30
Specific gravity at processing temperature	-	1.10	0.97	1.01

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)										
Prepolymer			DESMODUR [®] MTQ25165							
Chain extender			BAYTEC [®] T10 + BAYTEC [®] XL B							
Hardness at 20°C	DIN 53505	Shore	60 A	65 A	70 A	75 A	80 A	85 A	90 A	95 A
10% Modulus	DIN 53504	MPa	0.8	0.9	1.2	1.3	1.8	2.8	3.6	5.8
100% Modulus	DIN 53504	MPa	2.0	2.5	3.5	4.5	5.5	7.5	9.0	13.0
200% Modulus	DIN 53504	MPa	2.5	3.0	5.5	7.0	8.0	10.5	13.0	16.5
300% Modulus	DIN 53504	MPa	4.0	5.5	9.0	11.5	13	15.0	19.0	22.0
Tensile strength	DIN 53504	MPa	22	23	30	40	49	54	55	47
Elongation	DIN 53504	%	420	430	430	430	430	450	475	518
Tear strength : without nick	ISO 34-1	kN/m	33	36	55	65	75	108	111	139
Tear strength : with nick	ISO 34-1	kN/m	7	9	11	16	20	45	50	65
Resilience	DIN 53512	%	70	70	69	66	60	57	54	52
Abrasion loss	ISO 4649	mm ³	30	30	30	30	27	26	25	25
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%	15	16	22	25	36	44	36	33
Hardness at -5°C	DIN 53505	Shore	64 A	67 A	72 A	76 A	83 A	89 A	92 A	96 A
Hardness at 80°C	DIN 53505	Shore	57 A	60 A	64 A	69 A	75 A	82 A	87 A	93 A
Specific gravity			1.10	1.11	1.11	1.11	1.12	1.12	1.12	1.15

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

Version	01
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60 to 95 Shore A

STORAGE AND USE PRECAUTIONS				
	Unit	DESMODUR [®] MTQ25165	BAYTEC [®] T10	BAYTEC [®] XL B
Optimal storage temperature of the drums	°C	< 30	< 30	< 30
Storage time (sealed drum)	Month	6	12	12
PREPARATION BEFORE PROCESSING				
Preheating time / preheating temperature	hr / °C	12 / 50	12 / 60	12 / 45
Homogenization before processing required	-	no	yes	no
Degassing required	-	yes	yes	no

Keep from heat and protect against moisture.

PROCESSING									
Prepolymer		DESMODUR [®] MTQ25165							
Chain extender		BAYTEC [®] T10 + BAYTEC [®] XL B							
Hardness	Shore	60 A	65 A	70 A	75 A	80 A	85 A	90 A	95 A
Prepolymer processing temperature	°C	45							
BAYTEC [®] T10 processing temperature	°C	45							
BAYTEC [®] XL B processing temperature	°C	45							
Parts by weight of prepolymer		100	100	100	100	100	100	100	100
Parts by weight of BAYTEC [®] T10		150	137	108	95	82	68	57	41
Parts by weight of BAYTEC [®] XL B		3.8	5.3	7.9	9.1	10.3	11.5	12.5	14.0
CATD0512-2 - % / total (by weight), (catalyst at the head)		0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03
MOLDING AND CURING									
Mold temperature	°C	100							
Pot life (400g mixture) *	min	7'	5'30"	4'40"	4'30"	4'30"	4'20"	4'	3'
Demolding time	min	40'	40'	30'	30'	20'	20'	20'	20'
Post-curing	hr / °C	16 / 100							

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

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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