



DESMODUR[®] MTQ25130 + BAYTEC[®] T20 + BAYTEC[®] XL B (Catalyst CAT D0812-3 ou CAT D0814-1)

60 to 95
Shore A

NATURE OF COMPONENTS		
Prepolymer nature	Nature of chain extender and other components	
MDI - PTMEG	BAYTEC [®] T20	Ether polyol
	BAYTEC [®] XL B	Alcohol chain extender

CHARACTERISTICS OF COMPONENTS				
	Unit	DESMODUR [®] MTQ25130	BAYTEC [®] T20	BAYTEC [®] XL B
% NCO	%	13.10 (± 0.2)	-	-
Physical appearance at room temperature	-	liquid	solid	solid
Processing temperature	°C	45	45	45
Viscosity at processing temperature	cps	800	1200	30
Specific gravity at processing temperature	-	1.10	0.98	1.01

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)											
Prepolymer	Chain extender	ISO 48-4	Shore	DESMODUR [®] MTQ25130							
				BAYTEC [®] T20 + BAYTEC [®] XL B							
Hardness at 23°C				60 A (*)	65 A (*)	70 A (*)	75 A (*)	80 A (**)	85 A (**)	90 A (**)	95 A (**)
10% Modulus	DIN 53504	MPa		0.8	1.0	1.1	1.3	1.5	2.0	3.3	5.5
100% Modulus	DIN 53504	MPa		2.0	2.7	3.5	4.3	4.7	6.0	9.0	12.4
200% Modulus	DIN 53504	MPa		2.5	3.8	4.7	6.0	7.0	9.0	12.5	16.7
300% Modulus	DIN 53504	MPa		3.5	4.5	7.0	9.0	10.5	13.0	17.0	23.0
Tensile strength	DIN 53504	MPa		15	20	28	36	41	44	46	49
Elongation	DIN 53504	%		450	460	480	480	480	480	490	500
Tear strength : without nick	ISO 34-1	kN/m		35	45	55	65	75	95	115	138
Tear strength : with nick	ISO 34-1	kN/m		8	18	19	20	21	35	49	69
Resilience	DIN 53512	%		76	75	74	73	70	66	57	48
Abrasion loss	ISO 4649	mm ³		35	35	35	35	35	40	45	45
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%		22	23	25	25	26	26	27	28
Hardness at -5°C	ISO 48-4	Shore		64 A	67 A	73 A	78 A	84 A	87 A	93 A	96 A
Hardness at 80°C	ISO 48-4	Shore		58 A	63 A	69 A	73 A	76 A	83 A	88 A	94 A
Specific gravity				1.05	1.07	1.07	1.08	1.09	1.10	1.11	1.14

* Depending on process conditions, curing and post curing temperature, hardness may vary with a derivation of ± 3 Shore A.

** Depending on process conditions, curing and post curing temperature, hardness may vary with a derivation of ± 2 Shore A.

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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Shore A

STORAGE AND USE PRECAUTIONS				
	Unit	DESMODUR [®] MTQ25130	BAYTEC [®] T20	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 / 45	12 / 60	12 / 45
Homogenization before processing required	-	no	no	no
Degassing required	-	yes	yes	no

Keep from heat and protect against moisture.

PROCESSING									
Prepolymer		DESMODUR [®] MTQ25130							
Chain extender		BAYTEC [®] T20 + 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 [®] T20 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 [®] T20		190	175	135	115	80	60	40	20
Parts by weight of BAYTEC [®] XL B		5.2	5.9	7.7	8.6	10.2	11.0	12.0	12.9
or	% CAT D0812-3 / total (by weight), (catalyst at the head)	0.18	0.12	0.10	0.10	0.07	0.05	0.05	0.05
	% CAT D0814-1 / total (by weight), (catalyst at the head)	0.54	0.36	0.30	0.30	0.21	0.15	0.15	0.15

MOLDING AND CURING									
Mold temperature	°C	100							
Pot life on machine molding (400g mixture) ***		7'	7'	6'30"	6'30"	5'	4'30"	3'30"	2'55"
Pot life on machine molding (in mold) ***	min	4'30"	4'	4'	4'	4'	3'30"	2'15"	1'45"
Demolding time	min	30'	30'	30'	30'	30'	30'	30'	30'
Post-curing	hr / °C	16 / 100							

* Depending on process conditions, curing and post curing temperature, hardness may vary with a derivation of ± 3 Shore A.

** Depending on process conditions, curing and post curing temperature, hardness may vary with a derivation of ± 2 Shore A.

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

Use of a degassing agent without silicone 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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Covestro Elastomers SAS - 46, avenue des Allobroges - BP 116 - 26103 Romans cedex - France - Tel. 33 (0)4 75 72 72 75 - Fax 33 (0)4 75 02 11 73 - E-mail : info.elastomers@covestro.com – www.elastomers.covestro.com

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