



DESMODUR[®] MTQ25130 + BAYTEC[®] T20 + BAYTEC[®] XL B (Catalyst CATD0812-3)

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	DESMODUR [®] MTQ25130									
Chain extender	BAYTEC [®] T20 + 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	1	1.1	1.3	1.5	2	3.3	5.5
100% Modulus	DIN 53504	MPa	2.0	2.7	3.5	4.3	4.7	6	9	12.4
200% Modulus	DIN 53504	MPa	2.5	3.8	4.7	6	7	9	12.5	16.7
300% Modulus	DIN 53504	MPa	3.5	4.5	7	9	10.5	13	17	23
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	DIN 53505	Shore	64 A	67 A	73 A	78 A	84 A	87 A	93 A	96 A
Hardness at 80°C	DIN 53505	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

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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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	24 / 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	145	115	80	60	40	20
Parts by weight of BAYTEC [®] XL B		5.2	5.9	7.2	8.6	10.2	11.0	12.0	12.9
CATD0812-3 - % / total (by weight), (catalyst at the head)		0.18	0.12	0.10	0.10	0.07	0.05	0.05	0.05
MOLDING AND CURING									
Mold temperature	°C	100							
Pot life (400g mixture) *	min	7'	7'	6'30"	6'30"	5'	4'30"	3'30"	2'95"
Pot life Pot life (in a heated sheet 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							

* 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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