



DESMODUR® MDQ29170+ BAYTEC® D22-10+ BAYTEC® XL AL906 (Catalyst SD6-40)

60 to 95
Shore A

NATURE OF COMPONENTS		
Prepolymer nature	Nature of chain extender and other components	
MDI - Ester	BAYTEC® D22-10	Ester formulated polyol
	BAYTEC® XL AL906	Alcohol chain extender

CHARACTERISTICS OF COMPONENTS				
	Unit	DESMODUR® MDQ29170	BAYTEC® D22-10	BAYTEC® XL AL906
% NCO	%	16.80 (± 0.2)	-	-
Physical appearance at room temperature	-	solid	solid	solid
Processing temperature	°C	60	80	60
Viscosity at processing temperature	cps	500	1100	25
Specific gravity at processing temperature	-	1.17	1.15	1.01

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)										
Prepolymer			DESMODUR® MDQ29170							
Chain extender			BAYTEC® D22-10+ BAYTEC® XL AL906 (Catalyst SD6-40)							
Hardness at 20°C	DIN 53505	Shore	60 A	65 A	70 A	75 A	80 A	85 A	90	95
10% Modulus	DIN 53504	MPa	0.7	0.8	0.9	1.2	1.4	1.8	2.9	6.0
100% Modulus	DIN 53504	MPa	2.1	2.5	3.2	4.4	5.8	7.1	9.8	14.9
200% Modulus	DIN 53504	MPa	3.0	4.0	5.3	7.5	9.8	11.7	15.5	22.1
300% Modulus	DIN 53504	MPa	4.7	6.9	9.7	13.9	17.5	20.2	25.3	33.8
Tensile strength	DIN 53504	MPa	50	41	38	45	55	55	56	48
Elongation	DIN 53504	%	510	470	455	450	445	435	420	365
Tear strength : without nick	ISO 34-1	kN/m	47	56	68	79	84	89	100	118
Tear strength : with nick	ISO 34-1	kN/m	14	19	20	22	24	28	34	48
Resilience	DIN 53512	%	46	44	41	37	32	29	26	28
Abrasion loss	ISO 4649	mm³	30	30	30	30	35	40	45	55
Compression set (deflection / 22 h / 70 °C)	ISO 815- 1	%	53	45	39	35	34	34	35	36
Hardness at -5°C	DIN 53505	Shore	60 A	65 A	70 A	78 A	82 A	86 A	91 A	96 A
Hardness at 80°C	DIN 53505	Shore	60 A	63 A	68 A	75 A	78 A	82 A	87 A	92 A
Specific gravity			1.23	1.23	1.24	1.24	1.24	1.25	1.25	1.26

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® MDQ29170	BAYTEC® D22-10	BAYTEC® XL AL906
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	24 / 80	12 / 80	12 / 45
Homogenization before processing required	-	no	no	yes
Degassing required	-	yes	yes	yes

Keep from heat and protect against moisture.

PROCESSING									
Prepolymer		DESMODUR® MDQ29170							
Chain extender		BAYTEC® D22-10+ BAYTEC® XL AL906 (Catalyst SD6-40)							
Hardness	Shore	60 A	65 A	70 A	75 A	80 A	85 A	90 A	95 A
Prepolymer processing temperature	°C	60							
BAYTEC® D22-10 processing temperature	°C	80							
BAYTEC® XL AL906 processing temperature	°C	60							
Parts by weight of prepolymer		100	100	100	100	100	100	100	100
Parts by weight of BAYTEC® D22-10		180	155	130	107	87	75	60	40
Parts by weight of BAYTEC® XL AL906		9.6	10.7	11.8	12.8	13.7	14.3	14.9	15.8
Catalyst SD6-40 % / total (by weight), (catalyst at the head)		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
MOLDING AND CURING									
Mold temperature	°C	100							
Pot life (400g mixture) *	min	2'	2'	2'	1'30"	1'30"	1'	1'	1'
Demolding time	min	25'	25'	20'	20'	20'	20'	20'	20'
Post-curing	hr - °C	24 - 100 *							

* For specific applications (optimisation of dynamical properties or massive parts), please consult our Sales Department for additional information on post-curing conditions.

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.