



DESMODUR® MGQ32135 + BAYTEC® D13 + BAYTEC® XL B (Catalyst SD6-40 or SD6-160)

60 to 95 Shore A

NATURE OF COMPONENTS		
Prepolymer nature	Nature of chain extender and other components	
MDI - PPG	BAYTEC® D13	Ester polyol
	BAYTEC® XL B	Alcohol chain extender

CHARACTERISTICS OF COMPONENTS				
	Unit	DESMODUR® MGQ32135	BAYTEC® D13	BAYTEC® XL B
% NCO	%	13.45 (± 0.2)	-	-
Physical appearance at room temperature	-	liquid	solid	solid
Processing temperature	°C	45	60	45
Viscosity at processing temperature	cps	400	390	30
Specific gravity at processing temperature	-	1.10	1.14	1.01

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)										
Prepolymer			DESMODUR® MGQ32135							
Chain extender			BAYTEC® D13 + 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	0,7	0,9	1	1,2	1,8	2,7	3,5	5,9
100% Modulus	DIN 53504	MPa	2,2	2,9	3,6	4,5	5,6	7,1	8,7	12,4
200% Modulus	DIN 53504	MPa	3,1	4,3	5,6	6,9	8,4	10	11,5	15
300% Modulus	DIN 53504	MPa	4,9	6,4	8,2	9,7	11,5	13	14	17,1
Tensile strength	DIN 53504	MPa	39	41	43	44	47	35	28	23
Elongation at break	DIN 53504	%	550	550	550	550	575	650	700	600
Tear strength : without nick	ISO 34-1	kN/m	47	56	68	78	92	106	111	125
Tear strength : with nick	ISO 34-1	kN/m	23	23	23	29	35	49	59	63
Resilience	DIN 53512	%	35	35	34	33	30	30	35	39
Abrasion loss	ISO 4649	mm³	15	15	15	20	20	30	35	70
Compression set (% deflection / 22 h / 70 °C)	ISO 81 5-1	%	76	50	52	46	46	49	38	36
Hardness at -5°C	DIN 53505	Shore	67 A	73 A	78 A	83 A	87 A	92 A	95 A	98 A / 55 D
Hardness at 80°C	DIN 53505	Shore	56 A	62 A	66 A	72 A	77 A	83 A	89 A	94 A
Specific gravity			1,18	1,18	1,18	1,18	1,18	1,18	1,18	1,18

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® MGQ32135	BAYTEC® D13	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	h / °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® MGQ32135							
Chain extender		BAYTEC® D13 + 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® D13 processing temperature	°C	60							
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® D13		85	75	65	55	45	35	25	10
Parts by weight of BAYTEC® XL B		6,8	7,7	8,6	9,5	10,4	11,3	12,2	13,5
Or	SD6-40% / total (by weight), (catalyst at the head)	%	0.05	0.05	0.05	0.05	0.05	0.025	0.025
	SD6-160% / total (by weight), (catalyst at the head)	%	0.2	0.2	0.2	0.2	0.2	0.1	0.1

MOLDING AND CURING									
Mold temperature	°C	100							
Pot life (400g mixture in a non heated pot) *	min	5'	4'30"	4'15"	4'	3'45"	4'30"	4'10"	3'50"
Pot life (in a heated sheet mold)	min	3'	2'45"	2'30"	2'15"	2'10"	2'30"	2'30"	2'15"
Demolding time	min	40'	40'	30'	30'	30'	20'	20'	20'
Post-curing	hr / °C	16 / 80							

* 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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