



DESMODUR[®] MS70 - DESMODUR[®] MD13xx + BAYTEC[®] XL B

85 to 95 Shore A

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

CHARACTERISTICS OF COMPONENTS					
	Unit	DESMODUR [®] MS70	DESMODUR [®] MD1380	DESMODUR [®] MD1396	BAYTEC [®] XL B
% NCO	%	7.00 (± 0.2)	8.55 (± 0.05)	9.60 (± 0.2)	-
Physical appearance at room temperature	-	solide	solide	solide	solide
Processing temperature	°C	80	80	80	45
Viscosity at processing temperature	cps	1500	1200	1000	30
Specific gravity at processing temperature	-	1.17	1.15	1.16	1.01

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)					
Prepolymer			DESMODUR [®] MS70	DESMODUR [®] MD1380	DESMODUR [®] MD1396
Chain extender			BAYTEC [®] XL B	BAYTEC [®] XL B	BAYTEC [®] XL B
Hardness at 23°C	ISO 48-4	Shore	85 A	90 A	95 A
10% Modulus	DIN 53504	MPa	2.2	2.9	6.3
100% Modulus	DIN 53504	MPa	5.4	8.0	14.0
200% Modulus	DIN 53504	MPa	7.6	10.9	21.0
300% Modulus	DIN 53504	MPa	10.2	14.4	30.0
Tensile strength	DIN 53504	MPa	50	46	57
Elongation	DIN 53504	%	600	550	500
Tear strength : without nick	ISO 34-1	kN/m	100	110	145
Tear strength : with nick	ISO 34-1	kN/m	44	49	88
Resilience	DIN 53512	%	46	35	25
Abrasion loss	ISO 4649	mm ³	35	45	35
Compression set (deflection / 22 h / 70 °C)	ISO 815-1	%	25	25	33
Hardness at -5°C	ISO 48-4	Shore	91 A	93 A	97 A
Hardness at 80°C	ISO 48-4	Shore	83 A	88 A	92 A
Specific gravity			1.22	1.20	1.23

Depending on process conditions. curing and post curing temperature. hardness may vary from ± 2 Shore.

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 [®] MS70	DESMODUR [®] MD1380	DESMODUR [®] MD1396	BAYTEC [®] XL B
Optimal storage temperature of the drums	°C	< 30	< 30	< 30	< 30
Storage time (sealed drum)	Month	6	6	6	12
PREPARATION BEFORE PROCESSING					
Preheating time / preheating temperature	h / °C	12 / 60			12 / 45
Homogenization before processing required	-	no	no	no	no
Degassing required	-	Yes	Yes	Yes	no

Protect the products against heat et any eventual contact with wet source.

PROCESSING					
Prepolymer		DESMODUR [®] MS70	DESMODUR [®] MD1380	DESMODUR [®] MD1396	
Chain extender		BAYTEC [®] XL B	BAYTEC [®] XL B	BAYTEC [®] XL B	
Hardness	Shore	85 A	90 A	95 A	
Prepolymer processing temperature	°C	80			
BAYTEC [®] XL B processing temperature	°C	45			
Parts by weight of prepolymer		100	100	100	
Parts by weight of BAYTEC [®] XL B		7.1	8.7	9.8	
MOLDING AND CURING					
Mold temperature	°C	110			
Pot life (400g mixture)*	min	4'30"	2'30"	2'45"	
Demolding time	min	50'	25'	20'	
Waiting time at room temperature before post-curing	h	5			
Post-curing	h - °C	16 - 110 *			

Use of degassing agent is recommended for hand casting.

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

A one week aging at room temperature is required to obtain the optimal properties of the elastomer.

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