



DESMODUR® MD1665 + BAYTEC® XL B

85 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® MD1665	BAYTEC® XL B
% NCO	%	6.70 (± 0.2)	-
Physical appearance at room temperature	-	solid	solid
Processing temperature	°C	80	45
Viscosity at processing temperature	cps	1700	30
Specific gravity at processing temperature	-	1.18	1.01

ELASTOMER TYPICAL PROPERTIES (DATA GIVEN AS AN INDICATION)			
Prepolymer			DESMODUR® MD1665
Chain extender			BAYTEC® XL B
Hardness at 20°C	DIN 53505	Shore	85 A
10% Modulus	DIN 53504	MPa	2.1
100% Modulus	DIN 53504	MPa	6.1
200% Modulus	DIN 53504	MPa	8.8
300% Modulus	DIN 53504	MPa	12.7
Tensile strength	DIN 53504	MPa	43
Elongation	DIN 53504	%	600
Tear strength : without nick	ISO 34-1	kN/m	110
Tear strength : with nick	ISO 34-1	kN/m	75
Resilience	DIN 53512	%	38
Abrasion loss	ISO 4649	mm ³	25
Compression set (deflection / 22 h / 70 °C)	ISO 815- 1	%	30
Hardness at -5°C	DIN 53505	Shore	90 A
Hardness at 80°C	DIN 53505	Shore	80 A
Specific gravity			1.21

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® MD1665	BAYTEC® XL B
Optimal storage temperature of the drums	°C	< 30	< 30
Storage time (sealed drum)	Month	6	12
PREPARATION BEFORE PROCESSING			
Preheating time / preheating temperature	hr / °C	12 / 80	12 / 45
Homogenization before processing required	-	no	no
Degassing required	-	yes	no

Keep from heat and protect against moisture.

PROCESSING			
Prepolymer		DESMODUR® MD1665	
Chain extender		BAYTEC® XL B	
Hardness	Shore	85 A	
Prepolymer processing temperature	°C	80	
BAYTEC® XL B processing temperature	°C	45	
Parts by weight of prepolymer		100	
Parts by weight of BAYTEC® XL B		6.8	
MOLDING AND CURING			
Mold temperature	°C	110	
Pot life (400g mixture)	min	5'	
Demolding time	min	45'	
Waiting time at room temperature	hr	5	
Post-curing	hr / °C	24 - 100	

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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