



UR 5801 / 5850

POLYURETHANE CASTING ELASTOMER
HARDNESS 50 A SHORE - ROOM TEMPERATURE CURING

APPLICATIONS

Polyurethane casting elastomer designed to the production of molds or flexible parts having a good tear strength.

PROPERTIES

- Quick demoulding
- Excellent tear strength

- Easy processing

PHYSICAL PROPERTIES

		PART A UR 5801	PART B UR 5850	MIXING
Composition		ISOCYANATE	POLYOL	
Mixing ratio by weight		14	100	
Aspect		liquid	liquid	liquid
Color		dark amber	beige	beige
Brookfield LVT viscosity @ 25°C (mPa.s)	-	300 -400	1,000 - 1,800	700 - 1,300
Specific gravity @ 25°C Specific gravity of the cured product @ 23°C	ISO 1675-75 ISO 2781-88	1.10 - 1.14 -	1.14 - 1.18 -	- 1.14 - 1,18
Pot life @ 25°C on 150 g (min.)	-			10 - 15

MECHANICAL PROPERTIES @ 23°C ⁽¹⁾

Hardness	ISO 868-85	A1 / A15 Shore	52 / 50
Tensile strength	ISO 37-77	MPa	6
Elongation at break	ISO 37-77	%	850
Tear strength <i>Angular specimen without cut</i>	ISO 34-94	kN/m	30
Bashore resilience	ASTM 2632-92	%	60

PROCESSING CONDITIONS

Before using part B (polyol) must be mixed until homogeneous color and aspect are obtained without sedimentation at the bottom of the container. The both parts (polyol and isocyanate) must be mixed at room temperature above 18°C according to the indicated ratio. As the mix ratio polyol / isocyanate of the product is low it is recommended to weigh thoroughly components before mixing. Before casting ensure parts or molds are free of any trace of moisture.

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THERMAL AND SPECIFIC PROPERTIES (1)			
Using temperature	-	°C	-20 / +70
Temperature of glass transition	T.M.A.-Mettler	°C	< -20
Maximal thickness of casting	-	mm	50
Demoulding time	-	hr	
- at 23°C			12
- at 80°C (Curing after gel)			1

(1) : Average values obtained on standardized specimens / Hardening 12 hours @ 80°C

STORAGE - PRESERVATION

Shelf life of each component is 6 months in a dry place and in original unopened containers at a temperature between 15 to 25°C.

Any open can must be tightly closed under dry inert gas (dry air, nitrogen, etc.).

PRECAUTIONS

Normal health and safety precautions should be observed when handling these products :

- *ensure good ventilation*
- *wear gloves and safety glasses*

For further information, please consult the product safety data sheet.

PACKAGING

Part A
6 x 0.150 kg
1 x 2.0 kg

Part B
6 x 1.0 kg
1 x 14.3 kg

A surplus of product has been added in the isocyanate part in 1 kg unit in order to ensure a complete use of the polyol packaging.

GUARANTEE

The information of our technical data sheet are based on our present knowledge and the result of tests conducted under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON refuse any guarantee about the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The guarantee conditions are regulated by our general sale conditions.

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