

## DESCRIPTION

*Polyurethane casting elastomer designed to produce molds or flexible parts, by hand casting or with help of 2K machine.*

## PROPERTIES

- *Low shrinkage after hardening*
- *High elongation at break*
- *Low moisture sensitivity*
- *Good chemical resistance*

PHYSICAL PROPERTIES					
Composition		ISOCYANATE UR 7803	POLYOL UR 7830	MIXED 100/40 100/45	
Mix ratio by weight		40 or 45	100		
Aspect		Liquid	Liquid	Liquid	
Colour		Straw yellow	Beige	Beige	
Viscosity at 25°C (mPa.s)	BROOKFIELD LVT	3200	1950	2300	2350
Specific gravity at 25°C (g/cm <sup>3</sup> )	ISO 1675 : 1985	1.04	1.22	-	
Specific gravity of cured product at 23°C	ISO 2781 : 1996	-	-	1.16	
Pot life at 25°C on 145 g (min)	Gel Timer TECAM	-	-	40 - 60	

## PROCESSING CONDITIONS

*In case of a slightly wet model (gypsum, plaster type), ratio 100/45 (kit 10.33+4.65 Kg) has to be used in order to get a good curing on model surface.*

*The Polyol part is filled and may show a slight settling; this part must be stirred before any use (homogenous aspect and color without any settling in the container). This operation is easily processed by hand or thanks to a stirring machine.*

*Both parts (Polyol and Isocyanate) have to be mixed at a higher temperature or equal to 18°C, according to the mix ratio mentioned in this technical data sheet. Before casting, make sure that tools are moisture free.*

MECHANICAL PROPERTIES at 23°C (1)				
Hardness	ISO 868 : 2003	Shore A1	30	40
Tensile strength	ISO 37 : 2011	MPa	1.5	2.5
Elongation at break	ISO 37 : 2011	%	1500	1400
Tear strength <i>Unnotched angular specimens</i>	ISO 34 : 2004	kN/m	8.5	10

### THERMAL AND SPECIFIC PROPERTIES (1)

Linear shrinkage (specimen 1000x50x10mm)	-	mm/m	< 1
Maximal casting thickness	-	mm	150
Demoulding time at 23°C	-	Hours	24
Complete hardening time at 23°C	-	Hours	96

(1) Average values obtained on standardized specimens / Hardening 16h at 40°C

### HANDLING PRECAUTIONS

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

- Ensure good ventilation
- Wear gloves, safety glasses and waterproof clothes

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

### STORAGE CONDITIONS

Shelf life of both parts is 12 months, in a dry place and in their original unopened containers at a temperature between 15 and 25°C  
Any open can must be tightly closed under dry nitrogen.

### PACKAGING

ISOCYANATE UR 7803	POLYOL UR 7830	KIT
4.65 Kg 9.3 Kg	10.33 Kg	10.33 + 4.65 Kg
PACKAGING FOR CONTAINERS		
POLYOL UR 7830	ISOCYANATE UR 7803	KIT
09589 17.8 Kg	09590 8.0 Kg	09591 17.8 + 8 Kg

### GUARANTEE

The information contained in this technical data sheet result from research and tests conducted in our Laboratories 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 guarantee the conformity of their products with their specifications but cannot guarantee 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 responsibility of AXSON is strictly limited to reimbursement or replacement of products which do not comply with the published specifications.