

DESCRIPTION

A 2- component polyurethane liquid resin having very good mechanical properties. For production of parts requiring a high abrasion resistance (sanding mask etc).

PROPERTIES

- Very good abrasion resistance
- High mechanical properties
- Good hydrolysis resistance
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PHYSICAL PROPERTIES				
Composition		ISOCYANATE	POLYOL	MIXED
Mix ratio by weight		100	25	
Mix ratio by volume at 25 °C		100	24	
Aspect		liquid	liquid	Liquid
Colour		amber	green*	dark amber*
Viscosity at 25 °C (mPa.s)	BROOKFIELD LVT	18,000	400	5,000
Specific gravity at 25 °C (g/cm ³)	ISO 1675 : 1985	1.05	1.08	-
Specific gravity of cured product at 23 °C	ISO 2781 : 1996	-	-	1.09
Pot life at 25 °C on 125 g (min)	Gel Timer TECAM			15

*Some colour variations may occur without changing the final properties.

PROCESSING CONDITIONS

Polyol and Isocyanate have to be mixed at a temperature equal or higher than 18 °C according to the mixing ratio indicated on the technical data sheet. Isocyanate may be heated to make it more fluid then pot life will be shorter. Before casting, make sure that parts or moulds are free of any trace of moisture.

MECHANICAL PROPERTIES at 23 °C (1)			
Hardness	ISO 868 : 2003	Shore A1 / A15	89 / 88
Tensile strength	ISO 37 : 2004	MPa	30
Elongation at break	ISO 37 : 2004	%	900
Tear strength <i>Unnotched angular specimens</i>	ISO 34 : 2004	kN/m	95
BASHORE resilience	ASTM 2632 : 1992	%	48
Abrasion resistance (TABER 1000 revs /H22)	ISO 5470 : 1999	mg / 100U	4

THERMAL AND SPECIFIC PROPERTIES (1)			
Working temperature	-	°C	- 40 / + 80
Glass transition temperature (tg)	ISO 11357-2 : 1999	°C	- 70
Coefficient of thermal expansion (CTE) (+0°C to +40°C)	ISO 11359-2 : 1999	10 ⁻⁶ K ⁻¹	200
Linear shrinkage (specimen 250x50x3mm)	-	mm/m	0.80
Maximal casting thickness	-	mm	80
Demoulding time		hours	
-at 23°C			24
-at 80°C			3
Complete hardening time			
-at 23°C			96
-at 80°C (curing after gel)			4

(1) Average values obtained on standardized specimens / Hardening 4h at 16h at 70°C

HANDLING PRECAUTIONS

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

- 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 blanket.

IMPORTANT: if stored at a temperature lower than 15°C, each part may crystallize. The parts must be placed for 4 to 6 hours in an oven at 50°C until decrystallization.

CAREFULL: Excessive heating of the parts may cause (temperature > 60°C or heating time >12 hours) a degradation of the product.

PACKAGING

ISOCYANATE UR 3468	POLYOL UR 3468
6 x 1 kg	6 x 0.25 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.

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