



PX 245 / PX 245 L

VACUUM CASTING URETHANE
FOR TECHNICAL PARTS AND PROTOTYPES
FLEXURAL MODULUS 4,500 MPa - T_g 95°C

APPLICATIONS

To be used by vacuum casting in silicone molds for making prototype parts and mock-ups with mechanical properties similar to thermoplastics like polyoxymethylene (POM) and polyamide (PA).

PROPERTIES

- High flexural modulus of elasticity
- High reproduction accuracy
- Can be easily colored with CP pigments
- Fast demolding

PHYSICAL PROPERTIES				
		PART A PX 245	PART B PX 245 L	MIXING
Composition		ISOCYANATE	POLYOL	
Mixing ratio by weight		100	40	
Aspect		liquid	liquid	liquid
Color		grey	colorless	off-white
Brookfield LVT viscosity at 25°C (mPa.s)	-	600 – 1,000	800 – 1,200	2,000 – 2,400 *
Density of parts before mixing	ISO 1675-85	1.32 - 1.36	1.08 - 1.12	-
Density of the cured product at 23°C	ISO 2781-88	-	-	1.20 - 1.25
Pot life at 25°C on 140g	-			7 - 9

* Mixing is not instantly miscible.

VACUUM CASTING PROCESSING CONDITIONS

- Heat both parts at 23°C in case of storage at low temperature.
- **Important : Shake vigorously part A before each weighing.**
- Weigh both parts.
- After degassing for 10 minutes under vacuum mix for **1 minute to 2 minutes**.
- Cast under vacuum in a silicone mold, previously heated at 70°C.
- Demold after 50 - 60 minutes minimum at 70°C (allow the part to cool down before demolding).

HANDLING 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.

Page 1/2 6099PX/01180

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MECHANICAL PROPERTIES (1)

Final hardness	ISO 868-85	Shore D1	85
Hardness at 80°C	ISO 868-85	Shore D1	80
Flexural modulus of elasticity	ISO 178-93	MPa	4,500
Flexural strength	ISO 178-93	MPa	150
Tensile strength	ISO 527-96	MPa	85
Elongation at break in tension	ISO 527-96	%	3
Charpy impact strength	ISO 179 1EU-93	kJ/m ²	30

THERMAL AND SPECIFIC PROPERTIES

Glass transition temperature (1)	TMA METTLER	°C	95
Heat deflection temperature (1)	ISO 75Ae-93	°C	92
Linear shrinkage (1)		mm/m	2
Maximal casting thickness		mm	5
Demolding time at 70°C		min.	50 - 60

(1) Average values obtained on standardized specimens/Hardening 12 hr at 80°C

STORAGE

Shelf life is 6 months in a dry place and in original unopened containers at a temperature between 15 and 25° C. Any open can must be tightly closed under dry nitrogen.

PACKAGING

Isocyanate (Part A)
8 x 0.625 kg

Polyol (Part B)
4 x 0.500 kg

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.