

PX 118 PART A

PX 118/F PART B -PX 118/L PART B

PROTOTYPING CASTING RESIN FLEXURAL MODULUS 1,800 MPa - Tg 85°C

APPLICATIONS

Used by casting in silicone moulds for the realisation of prototype parts and mock-ups whose mechanical properties are close to those of thermoplastic such as standard ABS.

PROPERTIES

- Low viscosity
- Choice of Fast or Long pot-life
- Good mechanical properties

- Easy to color
- Thermoplastic aspect

PHYSICAL PROPERTIES									
			PX 118	PX 118/F PX 118/L PART B PART B	PX 118/L	MIXING			
			PART A		WIIZING				
Composition			ISOCYANATE	POLYOL ⁽¹⁾	POLYOL ⁽¹⁾				
Mixing ratio by weight			100	100	100				
Aspect			liquid	liquid	liquid	liquid			
Colour			colorless	Light amber	Light amber	Off-white			
Viscosity at 25°C	(mPa.s)	BROOKFIELD LVT	50	320	320	170			
Specific gravity at 25°C		ISO 1675 :1975	1.15	1.03	1.03	-			
Specific gravity at 23°C		ISO 2781 :1988	-	-	-	1.06			
Pot life at 25°C on 200g	(min.)	-		5	12				

⁽¹⁾Polyol maybe turn into cloudy if stored below 20°C. Heating it at 25°C will return to clear.

PROCESSING

Heat both parts at 25°C to in case of storage at low temperature.

Casting by vacuum casting machine

- Weight both part according to the mixing ratio;
- Put part A in the upper cup (do not forget the residual cup waste);
- Put part B in the low cup (mixing cup);
- Degas separately the two parts under vacuum;
- Pour part A in part B and mix for about 1 minute;
- Cast in silicone mould preheated at 70°C;
- Demould.

Manual casting

- Weigh according to the indicated ratio.
- Mix until a homogeneous mixing is obtained.
- Degas under vacuum and cast in a silicone mould pre-heated at 70°C (at least 35 40°C);
- Demould.

PX 118/F is only casted by vacuum casting machine. Demould time is 45 minutes at 70°C. PX 118/L can apply by manual or vacuum casting machine. Demould time is 120 minutes at 70°C.

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MECHANICAL PROPERTIES AT 23°C AFTER HARDENING (2)							
Hardness - at 23°C	ISO 868 :1985	Shore D1	78				
Flexural modulus of elasticity	ISO 178 :2001	MPa	1800				
Flexural strength	ISO 178 :2001	MPa	75				
Tensile strength	ISO 527 :1993	MPa	50				
Elongation at break	ISO 527 :1993	%	8				
CHARPY impact strength	ISO 179/2D :1994	kJ/m ²	60				

THERMAL & SPECIFIQUES PROPERTIES									
			PX 118/F	PX 118/L					
Glass temperature transition (2)	TMA METTLER	°C	85						
Linear shrinkage (2)	-	mm/m	2						
Maximal casting thickness	-	mm	10						
Demoulding time at 23°C		:-	-	210					
at 70°C	-	min	45	120					
Complete hardening time at 23°C	-	day	4						

⁽²⁾ Average values obtained on standard specimens/Hardening 16 hr at 70°C

STORAGE

Shelf life is 6 months for PART A (Isocyanate) and 12 months for PART B (Polyol) in a dry place and in original unopened containers at a temperature between 15 and 25°C. Any opened package must be tightly closed under dry nitrogen blanket.

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

PX 118/F

 $5 \times (1+1) \text{ kg}$

PX 118/L

 $5 \times (1+1) \text{ kg}$

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

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