

TECHNO POTTING™ 3011 LPL

Polyurethane potting resin

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

Low viscosity

Waterproof

High wear resistance

100% solid

Flexible with high resistance
to tension, elongation, and
tearing

Pot life of 60 minutes



Contact
POLYMÈRES TECHNOLOGIES
for more information:
support@polymerestechologies.com

DESCRIPTION

TECHNO POTTING™ 3011 is a two-component, 100% solid, elastomeric potting resin with a pot life that is longer than its regular version.

This product is formulated primarily for the protection of electrical and electronic components that must be effectively protected in aggressive environments (humidity, immersion in water, thermal shock) and must adhere well to metal, nylon, PVC, and other enclosures. Its very low viscosity allows complete sealing of components with fine gaps.

This product also meets the European RoHS standard (Restriction of certain hazardous substances in electrical and electronic equipment).

INSTRUCTIONS

It is recommended to mix part A well to disperse any deposits before adding part B.

Be careful to respect the mixing ratio of part A with part B, by weight or volume, and mix well until a uniform color is obtained. Minimize air infiltration during mixing.

Using a good release agent such as TECHNO RELEASE™ 113 will facilitate the release operation. The molds can be heated beforehand to speed up the unmolding operation.

Uncured material can be cleaned using our eco-friendly resin cleaner, POLY CLEANER™.

See *PRECAUTIONS* on last page for more information on storing TECHNO POTTING™ 3011.

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TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIXTURE
VISCOSITY	900	600	700
CONSISTENCY	Liquid		
MIXING RATIO BY VOLUME	2	1	2/1
POT LIFE (200cc)	60 minutes		
EXOTHERMIC TEMPERATURE (200cc)	68°C		
DEMOLDING TIME	6 – 12 hours		
FULL CURE*	7 days		

*After the material is solidified, complete curing can be accelerated to 51.7°C (125°F).

DENSITY AND MIXING RATIO BY WEIGHT DEPENDING ON COLOR			
COLOR	PARTS	MIXING RATIO BY WEIGHT	DENSITY (g/cm ³)
NEUTRAL	A	100	0.982
	B	62	1.205
	MIXTURE	100/62	1.057
BROWN	A	100	0.986
	B	58	1.194
	MIXTURE	100/58	1.053
GREY G45	A	100	1.00
	B	60	1.205
	MIXTURE	100/60	1.07
BLACK	A	100	0.984
	B	61	1.205
	MIXTURE	100/61	1.058



PHYSICAL PROPERTIES (SOLID STATE AFTER 7 DAYS AT 22°C/72°F)			
TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 2240-80	Shore A	80
	À 150°C (302°F) after 30 minutes		68-70
TENSILE STRENGTH	ASTM D 638 Type IV	MPa*	8-10
ELONGATION AT RUPTURE	ASTM D 638 Type IV	%	≥ 400
TEAR RESISTANCE	ASTM D 624 Mold C	N/mm	30-40
ABRASION RESISTANCE	ASTM D 4060 (Taber CS 17) – 1000 gr 1000 turns	Perte en gr	0.014
WATER ABSORPTION	ASTM D 570	%	0.026
THERMAL LINEAR EXPANSION COEFFICIENT	ASTM D 696	mm/mm/C	13.1 x 10 ⁻⁵

*1 MPa = 145 lbs/po²

PRECAUTIONS

- Consult material safety data sheet prior to use.
- Normal health and safety measures should be observed when handling this product.
- Ensure good ventilation.
- Wear gloves, safety glasses, and protective clothing.
- Do not use part A without its part B, and vice versa. Mix parts A and B separately before use.
- Once the container is opened, POLYMÈRES TECHNOLOGIES can no longer be held responsible for this product.
- Shelf life of this product in original containers is one (1) year from the date of purchase, under recommended storage conditions.
- Sealing the lid: several resins are sensitive to ambient humidity. In order to preserve the product, make sure to cover the product under a nitrogen atmosphere. Store partial containers of part B under dry nitrogen atmosphere.
- Keep from freezing. Store this product at 22 °C (72 °F).

It is recommended to follow provincial and federal safety regulations. In case of eye contact, rinse well with water. In case of skin contact, rinse with soap and water. Keep away from children.

ASSUMPTION OF RISK

The customer assumes all risk and liability for the results obtained by the use of any POLYMÈRES TECHNOLOGIES product, including, without limiting the generality of the foregoing, the use of the CHILL EPOXY™ line of products, and the use of any process, whether in terms of general effectiveness, success, or failure, and regardless of any oral or written statement made by way of technical advice or otherwise, related to the use of any POLYMÈRES TECHNOLOGIES product.

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