

U RESIN TLS70D



U RESIN TLS70D is an easy to use casting urethane for hard, plastic materials. This is an MDI polyether based polyurethane elastomer. This is a two part polyurethane casting system and cures at room temperature.

It offers advantages in that it can be readily processed and cured at room temperature. The convenient mix ratio and low viscosity allow easy processing either by hand or via machine mixing.

APPLICATION:

Point of sale purchase displays, rigid castings, special effects or where hard plastic materials are required.

Composition	Casting Urethane
Mix Ratio (weight)	100 Isocyanate: 100 Polyol
Pot Life @ 25°C	3 - 5 Mins
Cure Time	24hrs at 25°C will result in an 80% cure. Fully cured at 7 days at 25°C
Demould Time @ 25°C (mins)	15 - 30
Tensile Strength (MPa)	36
Shore Hardness	67 - 72 D
Angle Tear Strength (kN/m)	65
Elongation (%)	12
Specific Gravity (g/cm ³)	1.11
Linear Shrinkage (%)	0.04
Izod Impact Strength (KJ/m ²)	26

Pot life is based on 200 grams hand mixed sample. Properties presented below are to be used as a guide and not intended for specification purposes.

U RESIN TLS70D can be mixed by hand or readily processed through suitable polyurethane dispensing equipment. Note: Both Part A and B components are moisture sensitive. Once opened, containers should be purged with nitrogen, if they are to be stored for a long period of time.

PROCESSING PROCEDURE:

1. Carefully weigh the correct proportions of the two components together in one container, mix thoroughly. Be careful not to entrap air whilst mixing - apply vacuum to remove excess air bubbles.
2. Pour the mixed material into moulds that have been prepared with release agent, being careful to avoid trapping air.
3. Allow casting to cure before de-moulding.

NOTE: Use clean and dry plastic container and if you need to add filler ensure the filler is dry. (dry in the oven at 100°C if require to remove moisture.)

HANDLING PRECAUTIONS:

U RESIN TLS70D should be used in well-ventilated areas. Avoid breathing in vapours and protect skin and eyes from contact.

In case of skin contact, immediately remove excess, wash with soap and water. For eye contact, immediately flush with water for at least 15 minutes. Call a physician.

If nose, throat or lungs become irritated from breathing in vapours, remove exposed person to fresh air.

PRODUCT FEATURES:

- Low Exotherm <80°C
- Opaque sample as it cures
- Convenient mix ratio