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Clear Flex RU-550 A/B Product Data Sheet

RU-550 A/B is a two-component, Bluish/Clear Urethane castable rubber with Excellent Impact Resistance, Low Viscosity for detail definition and an Easy 1-1 Mix Ratio. Developed for prototype and special effect applications where high clarity, flexibility and toughness are requested. **Castings are Non-UV Stable and will slightly discolor over time. Add micro amounts of *UD Dyes* for transparent colored parts.

Available Sizes: Pint Kit (2 lb) & Qrt Kit (4 lb) Gal Kit (16 lb) & 5 Gal Kit (80 lb)

Applications

Encapsulate Objects, Produce Clear or Tinted Colored Rubber Parts.

CURED MATERIAL PHYSICAL PROPERTIES (Typical):

Color: Transparent /Bluish Tint
Durometer, Shore A: 45A
Viscosity Mixed: 1200 cps

Elongation: 850%
Tensile Strength: 610 psi
Elongation: 850
Tear Strength: 60

REACTIVITY DATA

Gel Time (Pot Life): 45 min.
De-Mold Time: 16-24 Hours
Mix Ratio: 100 A/ 100 B (*By Weight or Volume)

*Full Properties will develop over 48 Hours

Processing Instructions

Measure out components A & B--**100 A/ 100 B *By Weight or Volume** and mix thoroughly. Since clear materials are inherently difficult to ensure a uniform mix, scrape and transfer 1st mix into another container and re-mix. Avoid whipping in air bubbles. De-air or pressurize in mold to remove air from the mixing process. The area where RU-550 is processed should be controlled to eliminate dust and particles from mixture. Clear castings are sensitive to any foreign materials or air bubbles, which may appear during exothermic reaction if not processed properly. Clean stirrers and mixing containers should be used. RU-550 should be sealed and stored in a dry area.

Casting

RU-550 A/B must be cast in Platinum Silicone Molds. All other silicones will be unsatisfactory due to incompatibility. RU-550 is volume exothermic—the more material the quicker the cure. Small or thin parts will require a post cure for final cure in oven at 100-140F for 30-60 minutes. RU-550 is a high-impact resistant rubber, which cannot be polished. All parts should be cast in one-piece molds with no parting lines for best results.

Storage/Shelf Life:

A and B components must be stored in their original, unopened containers at temperatures above 65F. Shelf life of materials when kept in unopened sealed containers, at the recommended storage conditions, is 6 months. Containers should not be opened until ready for use. Once opened, storage life can be extended with the use of a purging gas—Nitrogen.

ACCESSORIES

UD Dye Red, Yellow, Black, Blue Transparent colors, added at 1-2%.

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST ANY APPLICATION AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALIZING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ON ANY PARTICULAR PATENT.