

Rapid Cast / Translucent

Translucent polyurethane system

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Key Properties

- Excellent physical properties after RT cure
- Free of mercury, MOCA or TDI

Applications

- Particularly ideal for color-matching application due to its neutral semi-transparent appearance
- Formulated for room temperature meter-mix dispensing systems and short mold cycle times

Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	100	86
		pbv	100	100
Density	ASTM D-792	g/cm ³	ca. 1.22	ca. 1.05
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 100	ca. 650

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 375
Gel time at 77°F (25°C)		sec	40-60
Demold time at 77°F (25°C)		min	9-15

Cured / Mechanical Properties (approximate values)

Cure 1: 24 hours at 77°F + 16 hours at 200°F
Cure 2: 7 days at 77°F

			Cure 1	Cure 2
Aspect	visual		Translucent	Translucent
Density	ASTM D-792	g/cm ³	1.12	1.12
Shore hardness D	ASTM D-2240		75-85	75-85
Deflection temperature, HDT (66psi)	ASTM D-648	°F (°C)	144 (62)	158 (70)
Tensile strength	ASTM D-638	psi	8,500	8,500
Elongation at Break	ASTM D-638	%	10	13
Flexural strength	ASTM D-790	psi	10,800	11,400
Flexural modulus	ASTM D-790	psi	250,000	285,000
Notched Izod	ASTM D-256	ft-lbf/in	0.7	0.7
Linear shrinkage	ASTM D-2566	in/in	0.001-0.005	0.001-0.005

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The processing and material temperature should be between 68-77°F (20-25°C).

RC-0082 can be used at room temperature. Meter-mix equipment is recommended due to the short working life of the formulation. If pigment has been added to the hardener component, it may separate during storage.

Agitate the hardener and resin before use to ensure that the formula is homogeneous.

Packaging

RC-0082 Quart Kit	3.72 lbs.
RC-0082 1 Gal. Kit	14.88 lbs.
RC-0082 5 Gal. Kit	74.4 lbs.
RC-0082 Drum Kit	837 lbs.

Storage

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label.

Partly used containers should always be sealed appropriately and used up as soon as possible.

Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.
