RAKU[®] TOOL InnoClear[™] OC-5246



Aliphatic / Rigid / Great Impact

Aliphatic, rigid polyurethane

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PC - Rev.-Status: 01- 2018/09/03

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Key Properties

- Excellent physical properties after PC cure
- Free of mercury, MOCA or TDI
- Excellent U.V. stability
- Specially formulated for castings into either tin or platinum silicone molds

Applications

• For room temperature hand-batch or vacuum assisted casting methods

Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	100	62
		pbv	100	64
Density	ASTM D-792	g/cm ³	ca. 1.13	ca. 1.10
Viscosity at 77°F (25°C)	ASTM D-2393	cР	ca. 450	ca. 1,300

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cР	ca. 650
Gel time at 77°F (25°C)		min	7-12
Demold time at 77°F (25°C)		min	30-45

Cured / Mechanical Properties (approximate values)

Cure 1: 24 hours at 77°F + 4 hours at 175°F Cure 2: 7 days at 77°F + 4 Hours at 175°F			Cure 1	Cure 2
Aspect	visual		Clear	Clear
Density	ASTM D-792	g/cm ³	1.10	1.10
Shore hardness D	ASTM D-2240		75-85	75-85
Deflection temperature, HDT (66psi)	ASTM D-648	°F (°C)	176 (80)	176 (80)
Tensile strength	ASTM D-638	psi	10,500	11,000
Elongation at Break	ASTM D-638	%	8	8
Tensile modulus	ASTM D-638	psi	265,000	270,000
Flexural strength	ASTM D-790	psi	15,400	15,700
Flexural modulus	ASTM D-790	psi	383,000	385,000
Notched Izod	ASTM D-256	ft-lbf/in	1.1	1.1
Linear shrinkage	ASTM D-2566	in/in	0.010-0.020	0.010-0.020

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Processing

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

For best results, de-air the material prior to casting, then pressurize to 60 psi until cured. However, if pressure cannot be used, this material has been designed for vacuum degas only. OC-5246 can be easily buffed when cured.

Packaging	
OC-5246 Quart Kit	3.24 lbs.
OC-5246 1 Gal. Kit	12.96 lbs.
OC-5246 5 Gal. Kit	64.8 lbs.
OC-5246 Drum Kit	729 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.

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Our recommendations on the use of the material are based on many years of experience and current scientific and practical knowledge. They are, however, provided without any obligation on our part and do not relieve the buyer of the need for suitability tests. They do not constitute a legal relationship, nor are any protected third party rights whatsoever affected thereby.