

Advanced Materials

ARATHANE[®] 5814 IS US / ARATHANE[®] 5884 PO US

TWO-COMPONENT POLYURETHANE CASTING / POTTING SYSTEM

Description

Arathane[®] 5814 IS US / Arathane[®] 5884 PO US is a solvent-free, two-component, low viscosity liquid polyurethane system designed for casting or potting of electrical and electronic devices, especially those parts that are sensitive to pressure. This system gels rapidly at room ambient temperature. It can be cured at room ambient temperature to yield a soft flexible compound suitable for in electrical and electronic applications.

Features

- Low viscosity
- Rapid curing at room ambient temperature
- Shore A hardness 85 - 90
- Good adhesion to metals and other materials

Typical Properties

	Isocyanate	Polyol
	Arathane[®] 5814 IS US	Arathane[®] 5884 PO US
Color	amber	black
Appearance	liquid	liquid
Specific gravity	1.22 -1.24	1.30 – 1.35
Viscosity, 25°C (77°F), cps. (mPas)	150 - 250	2,000-4,000

Processing Characteristics

The Arathane[®] 5814 IS US and Arathane[®] 5884 PO US components are mixed according to the specific ratio at ambient temperature, preferably using automatic dosing and mixing equipment. If the Arathane[®] 5884 PO US component has been stored for an extended time, it is recommended to stir well the complete content of the container. Separation of inorganic fillers is prevented by periodic slow agitation of the container.

Mix ratio Arathane[®] 5814 IS US / Arathane[®] 5884 PO US

1 / 3.8 by weight
1 / 3.5 by volume

Gel time @ 25°C, Tecam, 4 oz., minutes

10 – 15

Cure Requirements

The Arathane[®] 5814 IS US / Arathane[®] 5884 PO US system can be cured 24 hours at room ambient temperature. The cure cycle can be significantly reduced by post-curing at elevated temperature such as 2 hours at 60°C.

Typical Cured Properties

Property	Value
Shore A hardness	85 - 90
Specific gravity	1.28 – 1.32

Storage

Arathane[®] 5814 IS US isocyanate component should be stored in a dry place, preferably in the sealed original container, at temperatures between 18°C and 40°C (64.4°F and 104°F). Under these storage conditions the shelf life is 10 months. The product should not be exposed to direct sunlight.

Arathane[®] 5884 PO US polyol component should be stored in a dry place, preferably in the sealed original container, at temperatures between 2°C and 40°C (35.6°F and 104°F). Under these storage conditions the shelf life is 6 months. The product should not be exposed to direct sunlight.

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Huntsman Advanced Materials Americas maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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