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## **RAYSOTHANE™ 5000** **UV curable urethane compound**

Dispense-in-Place Gasket (DIPG) material for high output, fast cure, precision sealing applications.

Raysothane™ 5000 is a ready-to-use compound based on low molecular weight urethane oligomers. It has an incorporated system to initiate fast cross-linking within seconds upon exposure to UV-light.

Raysothane™ 5000 does not need post curing to provide the ultimate properties although some short-term low heat treatment may be recommended.

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### **DISPENSING**

The compound does not suffer from excessive sag after dispensing and result in beads of good dimensional stability without significant flattening. After dispensing the material onto a substrate, it can be easily cross-linked by exposing it to UV-light. UV exposure is done by passing the substrate with the bead of material under an ultra violet radiation source.

### **SAFETY AND HANDLING**

As some of the incorporated curatives are classified as irritant in the pure form, it is recommended to use gloves for handling DIPG compounds. During UV-curing, measures have to be taken to avoid any exposure of employees by light scattering out of the UV-tunnel.

During handling, exposure to direct sunlight has to be avoided and it is recommended to store the compound in dark opaque containers.

## Raysothane™ 5000 features

- Hard, flexible sealing material
- Non silicon based
- Incorporated fast UV-cure system
- Anti-sagging & Non tacky
- No thermal post curing needed
- Good thermal stability
- Fast and high production yield
- Good adhesion to metal & plastics substrates

## Material Specifications

### Physical

Properties	Test Method	Units	Value
Chemical Composition	-	-	Urethane based
Physical Form @ R.T	-	-	Liquid
Color	-	-	Natural
Specific Gravity	ASTM D792	-	1.066
Viscosity @ 200°C	ASTM D1238	Pa-s (cPs)	< 650 (< 650,000)

### Mechanical

Properties	Test Method	Units	Value
Hardness (Shore A)	ASTM D2240	-	45 - 50
Compression Set (80°C for 22hrs)	ASTM D395	%	12 - 18
Tensile Strength	ASTM D412	MPa (psi)	1.7 (253)
Elongation @ Break	ASTM D638	%	67



The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking the supplies immediately on receipt. The user shall evaluate and determine whether the product is suitable for the intended applications. We reserve the rights to alter product constants within the scope of technical progress or new developments. In no case will Rayco be liable for any special, incidental, or consequential damages based on breach of warranty or contract, negligence, strict tort, or any other theory.

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