

# EPICLON<sup>®</sup> Brominated epoxy resin (solid type)

## Brominated epoxy resin

### General description

This products series are flame-retardant brominated epoxy resins, derived from tetrabromobisphenol A and epichlorohydrin. High bromine content of 47-49wt %, provide excellent flame retardancy to cured resins.

### Typical properties\*

#### EPICLON<sup>®</sup> 152

Appearance	Marble lock
Epoxy equivalent, g/eq	350-370
Bromine content, wt %	47.0-49.0
Softening point, °C	60-65
Hydrolyzable Cl content, wt ppm	<100

#### EPICLON<sup>®</sup> 153

Appearance	Marble lock
Epoxy equivalent, g/eq	390-410
Bromine content, wt %	47.0-49.0
Softening point, °C	67-72
Hydrolyzable Cl content, wt ppm	<100

\*Typical properties; not to be construed as specifications.

### Typical formulation

	Parts by weight
<b>EPICLON<sup>®</sup> 153</b>	7.3
EPICLON <sup>®</sup> N-670-EXP-S (o-Cresol Novolac type epoxy resin)	60.0
Hardener : PHENOLITE <sup>®</sup> TD-2106 (Novolac type phenolic resin)	32.7
Accelerator : Triphenylphosphine	1.0
Antimony oxide	7.3

Curing schedule: 175°C - 5hrs.

### Cured resin properties

Tg by DMA, °C	175
Moisture absorption 300Hrs, % (85°C/85%RH)	1.62
Flammability, UL-94V (Glaoublar silica: 80wt%)	V-0

### Storage

EPICLON<sup>®</sup> 153 has a shelf-life of at least 6 month if it is stored in a cool, dry area.

Read The Material Safety Data Sheet Before Handling, Storing or Using This product.

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*Items mentioned in this information are for customers' reference and limited to certain examples although they are based on the most reliable data obtained by our company. It is hoped that customers make the best use of these products after careful examination.*

<http://www.dic.co.jp/en/products/epoxy/index.html>