

# Razeen® LR 1100

## Unmodified liquid Epoxy Resins



**General** Razeen® LR 1100 is a general purpose unmodified epoxy resin based on Bisphenol A with medium viscosity.

**Applications** Razeen® LR 1100 is widely used in 2-pack (amino) and heat (acid) cured formulation. The main application reaction would be in high chemical resistant coating, civil engineering, matrix, adhesives as well as in the field of electrical insulation and filament winding for manufacturing large diameter pipes.

**Properties**

- Medium viscosity and high reactivity
- Compatible with various hardeners, reactive diluents and accelerators
- Low hydrolysable chlorine content and therefore slight tendency to cristalization at low temperature.
- Confirms to FDA listing

The resins formulated yeild:

- Superior mechanical and electrical properties
- Execlent chemical and water resistance

Specific Key Data	Property	Value	Test method
	Appearance	Clear, no contamination	JCTM 001
	Color APHA	125 max.	ASTM D-1209
	Epoxy value	5.20 - 5.49 eq/Kg	ASTM D-1652
	Weight per epoxide	182 - 192 g/eq	ASTM D-1652
	Viscosity at 25°C (77°F)	11,000 - 14,000 mPa.s	ISO 12058-1
	Hydrolyzable Chlorine	400 - 700 ppm	JCTM 195
	Water Content (KF)	0.08% max.	ASTM D-4017

*Specific key data are individually checked throughout, guaranteed and included in certificate of analysis.*

Typical Key Data	Property	Value	Test method
	Residual Epichlorohydrin	10.0 ppm max	JCTM GC6010
	Density at 25°C	1.16 g/cm <sup>3</sup>	ISO 1675
	Flash point	≥ 200°C	ISO 2719

*Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not included in certificate of analysis.*

As-supplied form	Liquid
Odor	None
Shelf life (at storage temperature between 10-50 <sup>0</sup> C) (See expiry date on original container)	Several years
Hazardous decomposition products (When disposed of in fire)	Carbon monoxide, carbon dioxide and other toxic gases and vapors.
Disposal	Regular procedures approved by local authorities.

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**Packaging and Storage** Razeen® LR 1100 is supplied in bulk and in 240 kg. steel drums. This product has a minimum shelf life of four years when stored in unopened sealed containers in a dry location at room temperature. Like most liquid epoxy resins, Razeen® LR 1100 may crystallize when stored below room temperature. Heating the resin to 60-70°C (140-160°F), for several hours will re-liquefy it and restore its original properties.

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**Handling/Safety Precautions** **Warning: Causes irritation.**  
**May cause allergic skin reaction.**  
Avoid contact with eyes, skin or clothing.  
Avoid breathing vapor, mist or spray.  
Use with adequate ventilation.  
Promptly remove wet, contaminated clothing and wash before reuse.  
Wash after handling.  
Store in a cool, dry area in closed containers.  
  
**Please read Material Safety Data Sheet before using.**

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**Note** Razeen® is a registered trademark of JANA or an affiliate thereof.

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