

Technical Data:

Issued: Oct.2013
Revision: May.2017, Page: 1

Resin EP 115/ Hardeners EPC 140/ EPC 304/ EPC 501

Product Description

EP 115 is a low viscosity, room temperature curing epoxy compound for potting, casting and encapsulating, exhibiting good mechanical and insulating properties.

EP 115 can be applied with various curing agents depending on customer requests.

Features & Benefits

- Low viscosity
- High mechanical performance
- Flexible pot life
- High penetration
- Suitable for manual and automatic mixing

Applications

Electrical and electronic potting and encapsulating

Typical Uncured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Resin EP 115	
Appearance/Color	Clear
Viscosity@25°C, mPa*s	600-900
Density@ 25°C, g/cm³	1.10-1.15
Equivalent Weight (calc.), g/eq	175-185

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Processing	Resin EP 115 (A)	Hardeners (B)		
		EPC 140	EPC 304	EPC 501
	Mix Ratio (A:B), w/w	100:50	100:45	100:40
	Mix Viscosity @ 25°C, mPa*s	1600-2400	2000-3000	2000-3000
	Pot life @ 25°C, 100g, min	80-100	180 (at 40°C)	20-30
	Gel Time @ 25°C, 100g, min	250-300	360-500 (at 40°C)	50-60
	Typical Curing Schedule	24hr/RT	48hr/RT or 4hr/80°C	24hr/RT
Cured Properties*	Hardness, Shore D	80-85	80-85	80-85
	Tensile Strength, MPa	40-50	30-34	48-55
	Tensile Elongation, %	4-5	1.0-1.3	3.6-4.0
	Flexural Strength, MPa	75-85	90-95	90-95
	Flexural Modulus, MPa	1800-2400	2600-3000	2300-2700
	HDT, °C	61	46	52
	Service temperature, °C	-30 to 90	-30 to 90	-30 to 90

*) The data obtained after at least 7 days

Storage and Handling The shelf life of the EP 115 is 12 months at 20-35°C. For the best results, store in tightly closed original containers. Certain resins and hardeners are susceptible to crystallization. If crystallization occurs, warm the container to 50-60°C until the crystals have dissolved. Stir and allow content to cool to room temperature before use.

Packaging Packaging sizes are available from 1L up to 18L pails.

Shelf Life These products have a shelf life of 12 months in their unopened original bulk containers.

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