

# EPONAC<sup>®</sup> 600

PRODUCT  
DATA SHEET  
RE/600/079901/1

## Description

Low molecular weight Bisphenol A based solid epoxy resin.

## Applications

Used for the preparation of hybrid powder coatings, in combination with carboxyl-terminated polyester resins, characterised by a good flow and gloss.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	600 - 700	g/eq.	ISO 3001
Viscosity at 25°C <sup>(1)</sup>	H - M	Gardner Sc.	ASTM D 1545
Colour <sup>(1)</sup>	150 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethylenglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	60 – 70	°C	SIR 10000
Glass transition temperature <sup>(2)</sup>	43	°C	ASTM D 3418
Viscosity at 150°C <sup>(3)</sup>	2300	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined.  
Further advises are given in the safety data sheet.

Eponac<sup>®</sup>:SIR INDUSTRIALE registered trade mark.

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# EPONAC<sup>®</sup> 615

PRODUCT  
DATA SHEET  
REC/615/051901/1

## Description

Low molecular weight Bisphenol A based solid epoxy resin.

## Applications

Used for the preparation of hybrid powder coatings, in combination with carboxyl-terminated polyester resins, characterised by a good flow and gloss.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	650 - 720	g/eq.	ISO 3001
Viscosity at 25°C (1)	J - O	Gardner Sc.	ASTM D 1545
Colour (1)	150 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethylenglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	63 - 73	°C	SIR 10000
Glass transition temperature (2)	44	°C	ASTM D 3418
Viscosity at 150°C (3)	2300	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources, at temperature of 20°C max.. Avoid storage of pallets piled up. Under these conditions and at 20°C the resin should retain its chemical properties for at least one year.

## Safety

For professional and industrial use only. Before using the material, it is recommended to follow the industrial hygiene procedures and safety instructions by consulting the corresponding product safety data sheet.

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# EPONAC<sup>®</sup> 700

PRODUCT  
DATA SHEET  
RE/700/019901/1

## Description

Medium molecular weight Bisphenol A based solid epoxy resin.

## Applications

Suitable for the formulation of pure epoxy powder coatings.

Used in combination with carboxyl-terminated polyester resins, it is particularly suitable for preparation of hybrid powder coatings with good gloss and flexibility.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	700 - 760	g/eq.	ISO 3001
Viscosity at 25°C (1)	L - Q	Gardner Sc.	ASTM D 1545
Colour (1)	150 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethylenglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	65 - 75	°C	SIR 10000
Glass transition temperature (2)	47	°C	ASTM D 3418
Viscosity at 150°C (3)	2800	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined.

Further advises are given in the safety data sheet.

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# EPONAC<sup>®</sup> 825

PRODUCT  
DATA SHEET  
RE/825/019901/1

## Description

Medium molecular weight Bisphenol A based solid epoxy resin.

## Applications

Suitable for the production of pure epoxy powder coatings.

Particularly indicated for the preparation of hybrid powder coatings, in combination with carboxyl-terminated polyester resins, characterized by a good gloss and a high flow property.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	730 - 830	g/eq.	ISO 3001
Viscosity at 25°C <sup>(1)</sup>	N - T	Gardner Sc.	ASTM D 1545
Colour <sup>(1)</sup>	150 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethylenglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	70 - 80	°C	SIR 10000
Glass transition temperature <sup>(2)</sup>	50	°C	ASTM D 3418
Viscosity at 150°C <sup>(3)</sup>	4200	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined.

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# EPONAC<sup>®</sup> 945

PRODUCT  
DATA SHEET  
REC/945/111501/1

## Description

Medium molecular weight Bisphenol A based solid epoxy resin.

## Applications

Particularly suitable for the production of epoxy esters. Also indicated for the formulation of epoxy as well as hybrid powder coatings, in combination with carboxyl-terminated polyester resins, characterised by excellent mechanical and aesthetic properties and good flexibility.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	820 - 950	g/eq.	ISO 3001
Viscosity at 25°C <sup>(1)</sup>	Q - V	Gardner Sc.	ASTM D 1545
Colour <sup>(1)</sup>	150 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethylenglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	75 - 85	°C	SIR 10000
Glass transition temperature <sup>(2)</sup>	55	°C	ASTM D 3418
Viscosity at 150°C <sup>(3)</sup>	6000	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags, 500 and 1000 kgs bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined. Further advises are given in the safety data sheet.

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# EPONAC<sup>®</sup> 2055

PRODUCT  
DATA SHEET  
RE/2055/019901/1

## Description

High molecular weight Bisphenol A based solid epoxy resin.

## Applications

Mainly used compounded with phenolic resins for the so-called technology of the “can-coating”. It gives excellent coatings with high thermal and chemical characteristics and a good adhesion. Furthermore, not being toxic, it is often used in contact with foodstuffs and hygienic items, as tinned foods, tooth paste and similar.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	1300 – 1800	g/eq.	ISO 3001
Viscosity at 25°C (1)	W - Z	Gardner Sc.	ASTM D 1545
Colour (1)	200 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	85 - 100	°C	SIR 10000
Glass transition temperature (2)	65	°C	ASTM D 3418
Viscosity at 200°C (3)	4500	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined. Further advises are given in the safety data sheet.

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# EPONAC<sup>®</sup> 2065

PRODUCT  
DATA SHEET  
RE/2065/019901/1

## Description

High molecular weight Bisphenol A based solid epoxy resin.

## Applications

Mainly used compounded with phenolic resins for the so-called technology of the “can-coating”. It gives excellent coatings with high thermal and chemical characteristics and a good adhesion. Furthermore, not being toxic, it is often used in contact with foodstuffs and hygienic items, as tinned foods, tooth paste and similar.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	1500 - 2000	g/eq.	ISO 3001
Viscosity at 25°C (1)	X - Z <sub>1</sub>	Gardner Sc.	ASTM D 1545
Colour (1)	200 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	90 - 105	°C	SIR 10000
Glass transition temperature (2)	72	°C	ASTM D 3418
Viscosity at 200°C (3)	6500	mPa.s	SIR 10391

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined. Further advises are given in the safety data sheet.

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# EPONAC<sup>®</sup> 3075

PRODUCT  
DATA SHEET  
RE/3075/019901/1

## Description

High molecular weight Bisphenol A based solid epoxy resin.

## Applications

Mainly used compounded with phenolic resins for the so-called technology of the “can-coating”. It gives excellent coatings with high thermal and chemical characteristics and a good adhesion. Furthermore, not being toxic, it is often used in contact with foodstuffs and hygienic items, as tinned foods, tooth paste and similar.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	2000 - 2800	g/eq.	ISO 3001
Viscosity at 25°C (1)	Z+1/2 – Z <sub>3</sub>	Gardner Sc.	ASTM D 1545
Colour (1)	200 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	100 – 115	°C	SIR 10000
Glass transition temperature (2)	76	°C	ASTM D 3418

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined. Further advises are given in the safety data sheet.

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# EPONAC<sup>®</sup> 4085

PRODUCT  
DATA SHEET  
RE/4085/019901/1

## Description

High molecular weight Bisphenol A based solid epoxy resin.

## Applications

As the types EPONAC 2065 and 3075, also this resin is used, compounded with phenolic resins, for the internal coating of flexible tubes, to which, having a very high molecular weight, it gives a better flexibility. It is also often used compounded with other types of solid epoxy resins. Pulverized and added with a latent catalyst, EPONAC 4085 is suitable for the preparation of oven-hardening products with a good conservability at room temperature.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	2500 - 3500	g/eq.	ISO 3001
Viscosity at 25°C (1)	Z <sub>2</sub> - Z <sub>5</sub>	Gardner Sc.	ASTM D 1545
Colour (1)	200 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethyleneglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	105 - 125	°C	SIR 10000
Glass transition temperature (2)	79	°C	ASTM D 3418

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not flammable and no toxic effect has been determined. Further advises are given in the safety data sheet.

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# EPONAC<sup>®</sup> 5007 HMP

PRODUCT  
DATA SHEET  
REC/5007HMP/020502/1

## Description

Eponac 5007 HMP (high melting point), a low molecular weight Bisphenol A based solid epoxy resin, is a “type-1” epoxy with better resistance to sintering during storage. The performances of formulations made from this special grade are the same as those based on Eponac 5007.

## Applications

Suitable for the manufacturing of solvent borne two-component air drying and stoving paints, in the anticorrosion field.

## Sales Specifications

Property	Value	Unit	Method
Epoxy equivalent weight	500 - 550	g/eq.	ISO 3001
Viscosity at 25°C (1)	F – J	Gardner Sc.	ASTM D 1545
Colour (1)	150 max	Pt/Co Sc.	ASTM D 1209

(1) Determined on 40% m/m solution diethylenglycol-monobutylether

## Typical Properties

Property	Value	Unit	Method
Melting range	52 – 58	°C	SIR 10000
Glass transition temperature (2)	38	°C	ASTM D 3418

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute

(3) Viscosimeter ICI, Cone & Plate

## Supply form

Product is available as irregular flakes packed in 25 kgs. polyethylene bags.

## Storage stability

The product should be stored in the original bags kept tightly closed, away from direct sun light and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

## Safety

The product is not harmful and no toxic effect has been determined.

Further advises are given in the safety data sheet.

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