EPOSIR® 7161

PRODUCT DATA SHEET
REC/7161/011501/1

Description
Low molecular weight Bisphenol A based solid epoxy resin.

Applications
Eposir 7161 is suitable for the manufacturing of general purpose air drying and stoving paints.

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	460 - 520	g/eq.	ISO 3001
Viscosity at 25°C (1)	F - I	Gardner Sc.	ASTM D 1545
Colour (1)	100 max.	Pt/Co Sc.	ASTM D 1209

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

Typical Properties

Property	Value	Unit	Method
Melting range	48 - 52	°C	SIR 10000
Glass transition temperature (2)	33	°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 Kg 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 pilled up. Higher temperature during storage and transport can cause blocking formation and more difficult handling. 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 advices are given in the safety data sheet.

EPOSIR® 7165

PRODUCT DATA SHEET
RE/7165/039701/1

Description
Low molecular weight Bisphenol A based solid Epoxy resin.

Applications
Eposir 7165 is suitable for:

- formulation of bicomponents paints, solvent borne, for both air or stoving curable systems in the anticorrosion field.
- formulation of Hybrid powder coatings in combination with carboxyl-terminated polyester resins.

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	540 - 620	g/eq.	ISO 3001
Viscosity at 25°C (1)	G - M	Gardner Sc.	ASTM D 1545
Colour (1)	150 max.	Pt/Co Sc.	ASTM D 1209

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

Typical Properties

Property	Value	Unit	Method
Melting range	48 - 52	°C	SIR 10000
Glass transition temperature (2)	42	°C	ASTM D 3418
Viscosity at 150°C (ICI cone plate)	1300	mPa.s	

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

Supply Form
Product is available as irregular flakes packed in 25 Kg 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 advices are given in the safety data sheet.

EPOSIR® 7166

PRODUCT
DATA SHEET
RE/7166 /060401/1

Description
Low molecular weight Bisphenol A based solid epoxy resin.

Applications
Eposir 7166 is suitable for formulation of Hybrid powder coatings in combination with carboxyl-terminated polyester resins.

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	570 - 620	G/eq.	ISO 3001
Viscosity at 25°C (1)	H – M	Gardner Sc.	ASTM D 1545
Colour (1)	120 max.	Pt/Co Sc.	ASTM D 1209

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

Typical Properties

Property	Value	Unit	Method
Melting range	57 – 67	°C	SIR 10000
Glass transition temperature (2)	42	°C	ASTM D 3418
Viscosity at 150°C (ICI cone plate)	900	mPa.s	

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

Supply Form
Product is available as irregular flakes packed in 25 Kg PolyEthylene bags.

Storage stability
Because of low value of glass transition temp. the product could have a little tendency to block on storage. We recommend to store it in the original bags kept tightly closed, away from direct sunshine and heat sources. Under these conditions and at a normal temperature (5-25°C) the resin should have a stability of one year.

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

EPOSIR® 7167 PG

PRODUCT DATA SHEET
RE/7167 PG/039701/1

Description
Low molecular weight Bisphenol A based solid epoxy resin.

Applications
Eposir 7167 PG is suitable for formulation of Hybrid powder coatings in combination with carboxyl-terminated polyester resins.

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	600 - 660	g/eq.	ISO 3001
Viscosity at 25°C (1)	H - P	Gardner Sc.	ASTM D 1545
Colour (1)	150 max.	Pt/Co Sc.	ASTM D 1209

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

Typical Properties

Property	Value	Unit	Method
Melting range	60 - 70	°C	SIR 10000
Glass transition temperature (2)	45	°C	ASTM D 3418
Viscosity at 150°C (ICI cone plate)	1500	mPa.s	

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

Supply Form
Product is available as irregular flakes packed in 25 Kg 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 advices are given in the safety data sheet.

EPOSIR® 7168 PG

PRODUCT DATA SHEET
RE/7168 PG/039701/1
Revised: September 2016

Description
Low molecular weight Bisphenol A based solid epoxy resin.

Applications
Eposir 7168 PG is suitable for formulation of Hybrid powder coatings in combination with carboxyl-terminated polyester resins.

Sales specification

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

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

Typical Properties

Property	Value	Unit	Method
Melting range	65 - 75	°C	SIR 10000
Glass transition temperature (2)	49	°C	ASTM D 3418
Viscosity at 150°C (ICI cone plate)	2400	mPa.s	

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

Supply Form
Product is currently available as irregular flakes packed in 25 Kg 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 advices are given in the safety data sheet.

EPOSIR® 7170 PG

PRODUCT DATA SHEET
RE/7170 PG/039701/1

Description
Medium molecular weight Bisphenol A based solid epoxy resin.

Applications
Eposir 7170 PG is suitable for formulation of Hybrid powder coatings, in combination with carboxyl-terminated polyester resins or, in combination with acid or basic based hardeners, for the manifacture of pure epoxy powder coatings.
The resin is also specifically indicated for esterification.

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	800 - 900	g/eq.	ISO 3001
Viscosity at 25°C (1)	Q - V	Gardner Sc.	ASTM D 1545
Colour (1)	150 max.	Pt/Co Sc.	ASTM D 1209

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

Typical Properties

Property	Value	Unit	Method
Melting range	70 - 80	°C	SIR 10000
Glass transition temperature (2)	59	°C	ASTM D 3418
Viscosity at 150°C (ICI cone plate)	5200	mPa.s	

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

Supply Form
Product is available as irregular flakes packed in 25 Kg 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 advices are given in the safety data sheet.

EPOSIR® 7175 PG

PRODUCT DATA SHEET
RE/7175 PG/039801/1

Description
Medium molecular weight Bisphenol A based solid epoxy resin.

Applications
Eposir 7175 PG is suitable for formulation of Hybrid powder coatings, in combination with carboxyl-terminated polyester resins or, in combination with acid or basic based hardeners, for the manifacture of pure epoxy powder coatings.

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	710 - 780	g/eq.	ISO 3001
Viscosity at 25°C (1)	M - U	Gardner Sc.	ASTM D 1545
Colour (1)	150 max.	Pt/Co Sc.	ASTM D 1209

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

Typical Properties

Property	Value	Unit	Method
Melting range	65 - 75	°C	SIR 10000
Glass transition temperature (2)	51	°C	ASTM D 3418
Viscosity at 150°C (ICI cone plate)	3000	mPa.s	

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

Supply Form
Product is available as irregular flakes packed in 25 Kg 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 advices are given in the safety data sheet.

EPOSIR® 7178 PG

PRODUCT
DATA SHEET
RE/7178 PG/039701/1

Description
Medium molecular weight Bisphenol A based solid epoxy resin.

Applications
Eposir 7178 PG is suitable for formulation of Hybrid powder coatings, in combination with carboxyl-terminated polyester resins, with good flexibility and high brightness..

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	770 - 840	g/eq.	ISO 3001
Viscosity at 25°C (1)	O - U	Gardner Sc.	ASTM D 1545
Colour (1)	150 max.	Pt/Co Sc.	ASTM D 1209

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

Typical Properties

Property	Value	Unit	Method
Melting range	70 - 80	°C	SIR 10000
Glass transition temperature (2)	54	°C	ASTM D 3418
Viscosity at 150°C (ICI cone plate)	4000	mPa.s	

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

Supply Form
Product is available as irregular flakes packed in 25 Kg 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 advices are given in the safety data sheet.

EPOSIR® 7179

PRODUCT DATA SHEET
RE/7179/039701/1

Description
Bisphenol A solid epoxy resin.

Applications
Pure epoxy powder coating with high flexibility.

Sales specification

Property	Value	Unit	Method
Epoxy equivalent weight	1100 – 1250	g/eq	ISO 3001
Viscosity (1)	V – Z	Gardner scale	ASTM D 1545
Colour (1)	150 max.	Pt/Co scale	ASTM D 1209

(1) determined on 40 % m/m Butylcarbitol solution

Typical properties

Property	Value	Unit	Method
Fusion range	80 - 90	°C	SIR 10000
Glass transition (2)	63	°C	ASTM D 3418
Viscosity at 150 °C (3)	7000	mPa.s	SIR 10391

(2) Determined with DSC Perkin Elmer series 7 20 °C/min (3) ICI cone&plate viscosimeter

Supply Form
- 25 Kg polythene bags

Storage stability
The product should be stored in the original containers, in dry ambient, protected against light and direct sun-rays, at temperature below 20 °C. In these conditions it is stable one year.

Safety
The product is not subjected to any labelling under the current regulations.
Further advice is given in the safety data sheet.