

•Descriptions

Seplife® EMC7034 is a highly cross-linked epoxy/butyl acrylate carrier that has the appearance of white spherical beads. The particle size distribution is 150-600 micron. The resin is hydrophobic and has a porous structure combined with a very high surface area which is ideal for immobilization of enzymes. Epoxy-activated resins allow a simple and fast immobilization of enzymes by multipoint covalent binding between the enzyme and resin. All epoxy acrylate resins are designed to form very stable covalent linkages with different protein groups (amino, thiol, phenolic) under mild experimental conditions of pH and temperature. Epoxy/butyl acrylate can be used in either stirred tank or packed bed reactor.

•Physical and Chemical Characteristics

Matrix	Polyacrylate
Appearance	White opaque spherical beads
Functional group	Epoxy/butyl
Immobilization method	Covalent
Moisture content (%)	70-80
Shipping weight (g/ml)	0.65-0.75
Particle size (µm)	150-600
Pore size (Å)	500-800
Surface area (m ² /g)	≥ 100
Chemical stability	The resin is insoluble in water, acid, alkali and methanol, ethanol, acetone, toluene, n-heptane, DMSO and other organic solvents. The epoxy groups are unstable in acids and bases
Immobilization pH	6-8

•Key features and Benefits

- Easy immobilization through epoxy groups
- Good physical and chemical stability
- Long lifetime

•Recommended Storage Conditions

Recommended temperature of storage (°C)	2-8
Shelf life	6 months

•Precautions

Resins should be stored in sealed containers or bags where temperature was 2-8°C in dry conditions without exposure to direct sunlight.

Do not mix ion exchange and adsorbent resin with strong oxidizing agents as it may cause violent reactions.

In case of eyes contact with resins, rinse eyes immediately with plenty of water, and consult a specialist.

Material and samples must be disposed of according to local regulations.

Dry polymers will expand when they become wet and may cause an exothermic reaction.

Spilled materials on the floor can cause slippery conditions.

·Ordering Information

Product Name	Reference number	Packing size
Seplife® EMC7034	PM126F01	500g
	PM126F02	1kg
	PM126F03	5kg
	PM126F04	10kg
	PM126F05	25kg

·SUNRESIN® and SEPLIFE® are registered trademarks of Sunresin New Materials Co. Ltd.

·For more information about SEPLIFE® resins, please contact SUNRESIN® directly.

