TECHNICAL DATA SHEET

RIPEX®

newly developed

CYCLIZED RUBBER RESIN

GENERAL FEATURE

RIPEX resin is unique novelty product. It consists of deproteinized cyclized rubber based on natural rubber. Because of high purity, the colour, viscosity, and stability of the resin are exceptional. RIPEX has good compatibility with number of industrial raw materials. These useful properties make RIPEX of considerable interest to the formulators of paints, lacquers, adhesives, printing inks, and rubber/plastic compounds.

RIPEX is supplied as granulated solid resin and is now available as low viscosity type, RIPEX L, and high viscosity type, RIPEX S. RIPEX L is intended for application requiring better flow properties such as printing inks and RIPEX S is for that requiring high strength such as adhesives. RIPEX S is available as a wider range of viscosity. It is intended to cover and to suit individual customer's need for the resin of specific value and range of viscosity.

CAS reg. No. : 68441-13-4

SPECIFICATION

	RIPEX L	RIPEX S	Analytical Method
Melting Point, °C	135 - 145	135 - 145	ASTM E324
Viscosity at 20°C (Ford 4C -1:2 in Toluene), secs.	18 - 22	22 – 28	ASTM D1200
Colour (1:2 in Toluene), Gardner scale	8 max	7 max	ASTM D1544
Acid value, mg KOH/g	3 max	3 max	ASTM D1639

DILUTABILITY

• Toluene	Complete	• Cyclohexanone	Complete
• White spirit	Complete	• Soy Oil	Good
• Mineral Oils	Complete	• n-Butyl Acetate	Limited
• Xylene	Complete	• Methyl ethyl ketone	Insoluble
• n-Heptane	Complete	• n-Butannol	Insoluble

COMPATIBILITY

RIPEX has excellent compatibility with long oil alkyds and medium oil alkyds as shown by no phase separation and no change of clarity of the mixtures at any proportion. The compatibility with esterified rosins, maleic and phenolic resins is good whereas with acrylic and epoxy resins is limited.

PIGMENTATION

RIPEX possesses very high capacity of absorbing pigments and maintains good gloss films, even with high pigmentation. As RIPEX is non reactive inert resins, it is useful binder for metallic pigments.

CHEMICAL RESISTANCE

• Resistance to water and alkalis	Excellent
• Resistance to non-oxidizing acids	Good
• Resistance to concentrated inorganic acids	Limited
• Resistance to Phenol, Fatty acids & solvents	Poor

APPARENT VISCOSITY

Range of apparent viscosities of solutions of RIPEX L and RIPEX S in toluene, white spirit, and soy oil are as follows:

Solution	Apparent Viscosity at 23°C ASTM D2196	
	RIPEX L	RIPEX S
1:1 in Toluene	700 – 1,000 mPa.s.	1,000 – 1,800 mPa.s.
1:1 in White Spirit	2,200 – 3,000 mPa.s.	3,000 – 6,000 mPa.s.
1:2 in Soy Oil	250 – 450 dPa.s.	450 – 800 dPa.s.

These are informative figures only and a real figure of a selected batch in one of the solvents is available on request.

APPLICATIONS

RIPEX is recommended for:

- Alkyd based coatings to improve corrosion, water, and chemical resistance.
- Printing inks to improve ink transfer and scratch resistance.
- Combination with isocyanates and rubber to produce excellent primer coating for polypropylene films in manufacture of pressure sensitive adhesive tapes.

Other application:

- Marine paint (anti fouling)
- Road marking paint.
- Mirror backing paint.

CHARACTERISTICS

The most interesting characteristics of RIPEX are:

- Rapid solvent release
- Excellent resistance to cold, warm, and salty water
- Excellent resistance to alkalis
- Very good thermal stability
- Good resistance to non oxidizing acids
- Good mechanical properties
- Non reactive to metallic pigments
- Film incorporating RIPEX has good adhesion and hardness

PACKAGING

Three leaf paper bags. Each bag contains 25 kg net of product. The bags are supplied on wooden pallets. Each pallet contains 40 bags = 1000 kg net of product.

STORAGE CONDITION AND STABILITY

The stability of RIPEX is exceptional. It does not show any significant increase in viscosity on storage at about 30°C for six months. Cyclized natural rubber resins, in general and at such temperature, show significant increase very early, i.e. within three months. The resin should be stored indoors in a dry place, far from the sources of heat, and should not be exposed to the sunshine. Under these storage conditions and in original packs, the storage stability at about 30°C is 9 months and at 20-25°C is 12 months from the date of manufacture.

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Issue : January 2005