Water-borne Rosin Ester Dispersion

This series of products is a water-borne dispersion of rosin polyol ester resin without organic solvents. It is derived from rosin resin as raw material and processed through emulsification. This product features a narrow particle size distribution and a long shelf life. It serves as an excellent tackifier in environmentally friendly water-based adhesives.

Application：

Suitable for various environmentally friendly water-based adhesives, such as water-based label adhesives, packaging adhesives, laminating adhesives, pressure-sensitive adhesives, etc. It is also suitable for rubber and leather production and bonding, latex coatings, water-based spray adhesives, etc.

Specification:

Grade	LRD-840	LRD-880L	LRD-880LG	LRD-100Y	LRD-8091	LRD-5170R	LRD-5570
Emulsification	Nonionic					Anionic	
Base Resin	Rosin Ester						
Solids Content,%	49-51	54-56	54-56	54-56	54-56	49-51	54-56
Softening Point,℃	/	83-88	85-95	95-105	75-85	65-75	65-75
Viscosity ,cps	≤600	≤300	≤300	≤300	≤300	300-1000	300-1000
Particle Size,nm	≤600	≤600	≤800	≤800	≤600	≤270	≤300
pH Value		7-9		7-9	7-9	6-8	6-8

Items	LRD-	LRD-8120	LRD-9080	LDR-9081	LRD-9084	LRD-9030	LRD-9125
Emulsification	Anionic		Anionic	Nonionic		Anionic	Anionic
Base Resin	Rosin Ester						
Solids Content,%	54-56	54-56	54-56	53-55	58-60	54-56	54-56
Softening Point,℃	95-105	115-125	75-85	75-85	75-85	Tg:15-5	120-130
Viscosity,cps	300-800	≤600	≤600	≤300	300-1200	≤600	≤300
Particle Size,nm	≤300	≤600	≤450	≤300	≤450	≤300	≤300
pH Value	6-8	6-9	7-9	7-9	7-9	7-9	7-9

Note:1)Softening Point-Hercules Drop Softening Point.2)Viscosity-Brookfield (3#,60rpm,25℃).

Properties：

1）Broad compatibility. 2) Exhibits good storage and mechanical stability.3) Good pigment and substrate wetting.4) Improves adhesion to polyethylene and polypropylene. 5) Provides low viscosity sprays.6) Improves initial adhesion and peel strength

Compatibility

Compatible with water-based synthetic and natural polymer emulsion, such as Acrylate emulsion, Vinyl acetate-ethylene copolymer emulsion(VAE), Polyvinyl acetate emulsion(PVA), Styrene-butadiene Rubber latex(SBR), Chloroprene rubber later(CR), Nitrile-butadiene rubber latex(NBR), Natural rubber latex (NR).