

TECHNICAL DATA SHEET

HYDROCARBON RESIN

L-90,100

This is used as a tackifier for various synthetic rubbers including SBR and natural rubbers, and provides excellent effects in improving processibility and performances of these rubbers.

110,120,130

It exhibits outstanding solubility in various types of general solvents, and superb compatibility with synthetic resins including alkyd resin and phenol resin, and natural resins. It finds an extensive range of applications as a modifier for paints and printing inks, and as a tackifier for adhesives and pressure sensitive adhesive, when used in combination with various types of resin. Especially, it is used in rust preventive paints, thereby making a significant contribution to improvement of various coating film characteristics including resistant against chemicals and water.

140

It is used in oil paints and synthetic resin paints including various types of alkyd resin and phenol resin, and is making a significant contribution to improvement of various coating film characteristics including drying properties and resistant against chemicals and water. Furthermore, as resin for printing inks, it is utilized as offset ink resin and letterpress printing ink resin, thereby making a significant contribution to improvement of various coating film characteristics including drying properties and gloss of the print.

150,170S

This is manufactured with particular attention paid to ensure outstanding compatibility with rosin-modified Phenolic resin and solubility in ink oil. This manufacturing effort provides excellent printing characteristics including reduced setting time and improved gloss of paint, when used in combination with rosin-modified Phenolic as offset ink resin.

160

It provides prominent dispersibility in pigment because of the acid group introduced into the molecules. Use of a high softening point ensures improved gloss and reduced setting time, thereby providing superb printing characteristics as offset ink resin.

E-100, E-130

The polar group introduced into the molecules offers excellent compatibility with epoxy resin and urethane resin. Used as a modifier of epoxy resin, it makes it possible to create modified epoxy paints, making a significant contribution to making paint color chromatic as an alternative to tar epoxy paint.

130S

This resin has been developed as hot melt adhesive resin, and has a relatively good compatibility with EVA although the softening point is as high as 130 degrees Celsius. It also features eminent thermostability with a minimum generation of carbonized gel or skinning.

M

This is modified hydrocarbon resin suited to offset ink, newspaper ink and letter-press printing ink, and allows production of inks superior in gloss and drying properties in particular. In recent years, there has been a growing use of low aromatic or non-aromatic hydrocarbon based ink solvent for reasons of environment and health. This resin allows high performance ink to be prepared despite the use of these solvents.

S, S-110

It features outstanding compatibility with EVA, SBR, thermoplastic elastomer and various types of wax, and is used as a tackifier for adhesive and pressure sensitive adhesive. Since it is excellent in thermostability in particular, it is utilized for hot melt type adhesive to provide outstanding adhesion properties. It is also employed as a binder for hot melt type traffic making paints, thereby offering superior resistance against heat and cracking in particular.

| GRADE | L-90 | 100 | 110 | 120 | 130 | 140 | 150 | 170S |
|------------------------------------|-------------------|------------|------------|--------------------|------------|------------|-------------------|------------|
| Appearance | Pale Brown Pellet | | | Pale Yellow Pellet | | | Pale Yellow Flake | |
| Color Gardner (2g/25ml Toluene) | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 |
| Softening Point R&B C | 95 | 100 | 110 | 120 | 130 | 145 | 155 | 160 |
| Acid Value (mgKOH/g) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Bromine No. (g/100) | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 30 |
| Molecular Weight (GPC) | 1100 | 1100 | 1300 | 1500 | 1800 | 2100 | 2600 | 3000 |
| CAS Number | 64742-16-1 | 64742-16-1 | 64742-16-1 | 64742-16-1 | 64742-16-1 | 64742-16-1 | 64742-16-1 | 64742-16-1 |