

HYDROCARBON RESINS FOR PAINT INDUSTRY

TYPICAL PROPERTIES

ITEM	DATA	TEST METHOD
Softening Point (R&B)	110-125 °C	ASTM E28-58
Specific Gravity (60/60°F)	1.05~1.10	ASTM D71-72A
Acid Number (KOH mg/g)	0.1max	ASTM D-974
Bromine Value (Br. cg/g)	25max	ASTM D1159
Viscosity (cps, at 25°C, in 50% toluene)	20-25	ASTM D5125-97
Ash Content (wt %)	0.05max	ASTM 2451
Mw	1100-1500	GPC

1. GRADES SUGGESTION

YL-120, SK-120, SK-120H, SK-120i, GA-120, GA-115B, GA-115BE (Details showed in Data Sheet)

2. CHARACTERISTICS

Hydrocarbon resins are thermoplastic, solid at ambient temperature having pale yellow-colored granule form.

Hydrocarbon resins are compatible with a large variety of polymeric materials, such as:

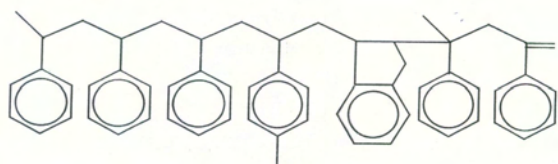
- Alkyd, Epoxy, Phenolic, Vanish, Mineral Oil etc.

3. CHEMICAL STRUCTURE

A simplified chemical reaction between styrene, indene and their methyl derivatives.

Hydrocarbon Resins, as previously mentioned, are oligomers resulting from a copolymerization in a Friedel-Crafts type catalyst.

The main structure of C9 hydrocarbon resins is as following:



4. FORMULA RECOMMENDATION

ITEM	RATIO
ALKYD	30
PETRORESIN	20
MINERAL SPIRIT	20
OTHERS	30
TOTAL	100

Reference only.

5. TECHNICAL ADVANTAGES

To the paint sector, hydrocarbon resins provide several technical advantages, such as:

- Increase gloss and tack
- Water proofing, resistance to acid and alkali
- It contributes to quick dry and hardness
- Solids content increase (dry extract)

6. APPLICATION

- Alkyd Enamel, Primer
- Anti-corrosive coating
- Aluminium paint
- Vanish
- Epoxy ester

7. PACKAGE

- 25 kg paper bag
- 500 kg jumbo bag