

C9 Hydrocarbon Resins for Adhesive Industry

Typical Properties

Item	Specification	Test Method
Softening Point (R&B) °C	90-105, 105-115, 115-125, 125-135	ASTM E28-58
Color, Gardner (max)	4-7	ASTM D1544
Specific Gravity (20/20°C)	1.05-1.10	ASTM D71-72A
Acid Value (KOH mg/g)	0.1 max	ASTM D-974
Bromine Value (Br cg/g)	25 max	ASTM D1159
Ash Content (wt %)	0.05 max	ASTM 2451
Molecular Weight (Mw)	1050-1300, 1300-1500, 1450-1800, 1800-2600	GPC

1. Grades Suggestion

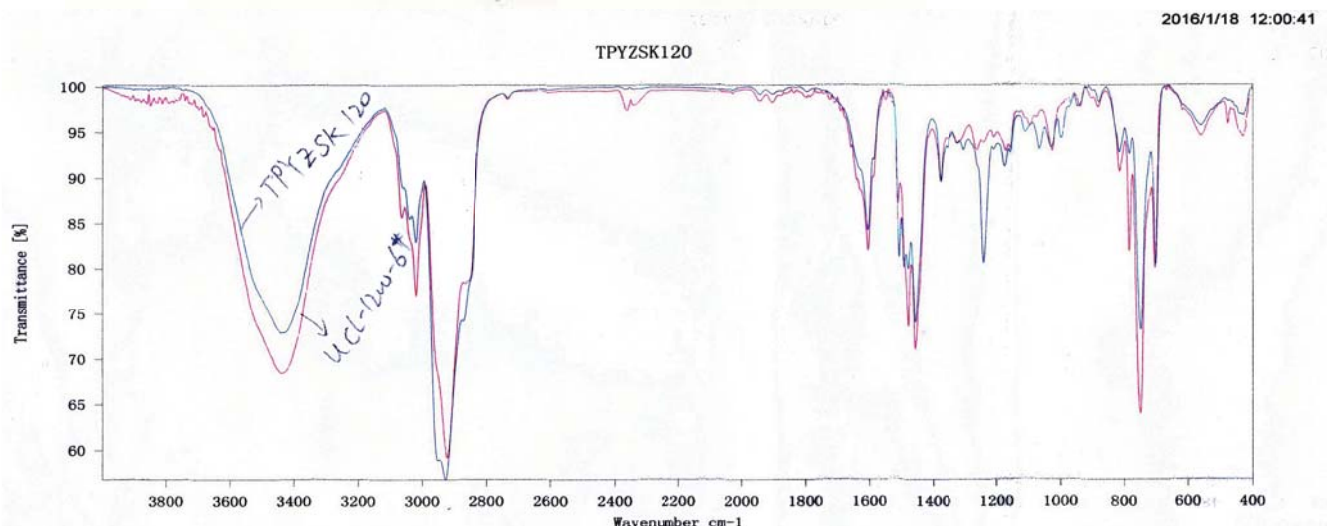
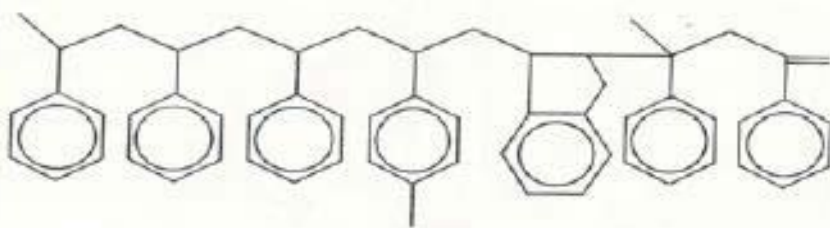
UCL-100, UCLS-100, UCL-110, UCL-120, UCLS-120, UCL-130 (As to details please feel free to ask TDS)

2. Characteristics

UCL Series hydrocarbon resins are catalytic based solid yellowish granule form. It have good compatible with a large variety of polymeric materials, such as: EVA, SBS, BR, CR, PP, PE, etc.

3. Chemical Structure & Composition

UCL & UCLS series is simplified chemical reaction between styrene, indene and their methyl derivates. The main structure and IR as following:



4. Formula Recommendation for Reference

Item	EVA (28% VA content Melt Index: 400g/min)	Petroleum Resin	Wax	Others
Ratio (%)	40	35	15	10

5. Technical Advantages

Used in adhesive industry, UCL&UCLS series resins provide several technical advantages, such as:

- ★ Greatly Increase cohesion
- ★ Increase tack and adhesion
- ★ Lower viscosity to get better wettability
- ★ Adjustment of open time

6. Application

- ★ Contact adhesives
- ★ Hot melt adhesive (EVA)
- ★ Case/carton adhesives
- ★ Edge banding/ Woodworking

7. Packaging and Storage

C9 resins are available both in 25Kg multi-ply paper bags and 500kg bags.

All resins with a low softening point present a risk of solidifying, which increases in hot weather. Therefore for softening points of less or equal to 100° C, we recommend :

- ★ Avoid storage for prolonged period ;
- ★ Storage in a cool (25° C max), ventilated area, out of sunlight .

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