

## Hydrocarbon Resins for Rubber Industry

### Typical Properties

Type	C5	C5/C9 Resins		C9 Resin		CPD/C5	Test Method
Item	UCA100	UCA100C	UCA110C	UCH-100	UCH-120	CPD5100	
Color, Gardner (max)	5	5	5	8-15	8-15	3-7	ASTM D1544
Softening Point (R&B) °C	97-104	97-104	105-120	95-105	115-125	100-120	ASTM E 28
Bromine Value (Br cg/g)	55 max	30 max	40 max	50 max	50 max	90-105	ASTM D1195
Acid Value (KOHmg/g)	0.10	0.30 max	0.30 max	0.20 max	0.20 max	0.30 max	ASTM D-974
Melt Viscosity BRF, @200°C, cps	160-200	100 max	190-220	80-120	90-130	120 max	ASTM D3236
Molecular Weight (Mw)	2,600	1,100	1,300	-----	-----	1,500	GPC

### 1. Grades Suggestion

UCA100, UCA100C, UCA110C, UCH-100, UCH-120, CPD5100 (As to details please feel free to ask TDS)

### 2. Characteristics

Hydrocarbon resins works as tackifier, reinforcer and softener in rubber compounding.

It can improve rubber green tack and lower rubber mooney viscosity of compounding to perfect machinability.  
It can lower the vulcanization time and hardness of compounding to improve tensile and tear strength performance.

CPD5100 resin is very special with higher bromine value which widely used in tire rubber synthetic

### 3. Packaging and Storage

Hydrocarbon resin is 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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