

DIACARNA™

Synthetic Wax Additive

DIACARNA is a specialty synthetic wax composed of alpha olefin and maleic acid that has high filler dispersibility.

Characteristics

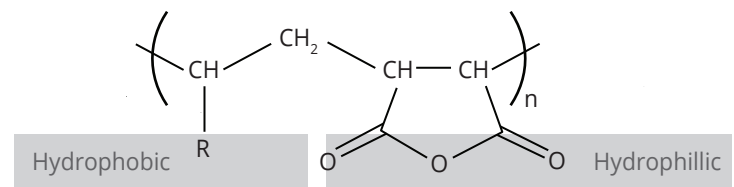
- Excellent dispersing power for carbon black, pigments and filler
- Excellent heat-resistance
- High gloss
- Good hardness at high temperatures

Material Properties	
Product	Diacarna™ 30
Appearance	Pale yellow solid
Melting Point (°C)	70~76
Viscosity (mPa·s at 100°C)	150~210
Penetration (1/10mm at 25°C)	3~4
Saponification value (mgKOH/g)	95~110

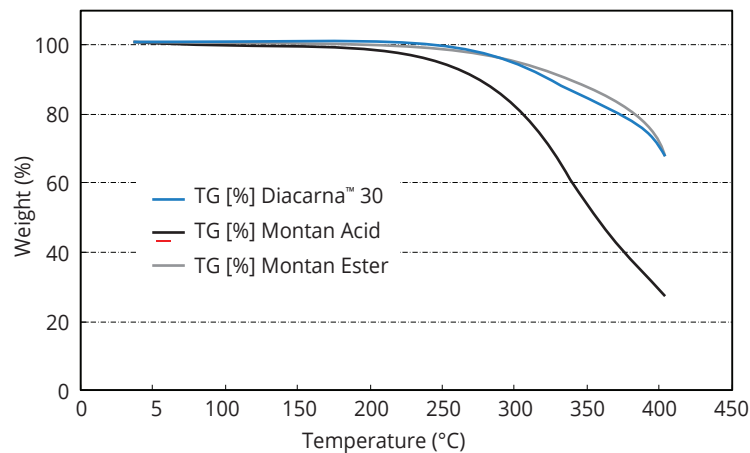
Applications

- Polymer alloy (ex. PC/ABS alloy with Diacarna™)
- Lubricants, Mold-releasing agents
- Master batch (pigment dispersion)
- Thermal printing ribbon (carbon dispersion)

Product Structure



Thermal Stability of Diacarna™ (TG-DTA)



Weight Loss Starting Temperature

Wax	1% Weight Loss
Diacarna™ 30	252 °C
Montan Wax (Acid type)	188 °C
Montan Wax (Ester type)	238 °C

Diacarna™ shows equal heat-resistance compared with Montan Ester wax and significantly better heat-resistance than Montan Acid wax.