



# YOUNG'S CORPORATION

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## PLASTICIZER

Plasticizers are organic ester compounds, formed through heating acid and alcohol with the catalyst. Plasticizers improve processing ability and transform physical property by being added to polymer. Plasticizers are used to flexibility, low temperature resistance, volatility-resistance and good electrical properties for leather, seats, PVC films and electrical wires.

PRODUCT	Features and Application
DOP (DIOCTYL PHTHALATE , DI-2-ETHYLHEXYL PHTHALATE)	Most common plasticizer of phthalate. It is well mixed with PVCand PVA
DINP (DIISONONYL PHTHALATE)	DINP is a general plasticizer, next to DOP. It is used for PVC films, leather, seats, electrical wires
DOA (DIOCTYL ADIPATE,DI- 2-ETHYLHEXYLADIPATE[DEHA])	Low temperature resistance,light stability heat-resistance and viscosity stability are excellent.
TOTM (TRIOCTYL TRIMELLITATE)	It is heat-resistant plasticizer and is widely used for covering material of vinyl electrical wires as a heat resistant plasticizer.
DBP (DIBUTYL PHTHALATE)	It is more used for compatibility than durability purpose.
DIDP DIISODECYL PHTHALATE)	It has volatility resistance, heat stability and electric insulation.
DOM (DIOCTYL MALEATE)	It endows resin with flexibility as a reactive plasticizer by co-polymerization
CITROCIZER-A (Citric acid ester)	Easy mixture of low toxicity and odorless and processability and in the case of SOL, due to the advantages of stability in viscosity, it is ideal as food packaging plasticizers.

### Product Specification

ITEM	DOP	DINP	DOA	TOTM	DBP	DIDP	DOM	CITROCIZER
Color(APHA)	20↓	20↓	20↓	40↓	25↓	25↓	40↓	30↓
Specific gravity (20/20℃)	0.986 ± 0.003	0.976 ± 0.003	0.927 ± 0.003	0.990 ± 0.003	1.048 ± 0.003	0.968 ± 0.003	0.944 ± 0.003	1.050 ±0.005
Acid value (KOH mg/g)	0.02↓	0.02↓	0.04↓	0.10↓	0.05↓	0.03↓	0.10↓	0.2↓
Ester value	287 ± 3	267 ± 3	302 ± 3	307 ± 3	403 ± 3	251 ± 3	327 ± 3	
Refraction index (nD25)	1.485 ± 0.003	1.484 ± 0.003	1.446 ± 0.003	1.484 ± 0.003	1.491 ± 0.003	1.484 ± 0.003	1.454 ± 0.003	1.4410~1.4425
Heat loss (wt%)	0.07↓	0.07↓	0.10↓	0.10↓	0.30↓	0.08↓	0.20↓	
Volume resistance (Ωcm, 30℃)	4.0 × 10 <sup>11</sup> ↑	5.0 × 10 <sup>11</sup> ↑	5.0 × 10 <sup>11</sup> ↑	4.0 × 10 <sup>11</sup> ↑	3.0 × 10 <sup>9</sup> ↑	4.0 × 10 <sup>11</sup> ↑	1.0 × 10 <sup>11</sup> ↑	1.0 × 10 <sup>10</sup> ↑