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Plasticizer

Products and main use

PRODUCT	Features and Application
DOP (DIOCTYL PHTHALATE , DI-2-ETHYLHEXYL PHTHALATE)	<ul style="list-style-type: none"> Most common plasticizer of phthalate. It is well mixed with PVC(Poly Vinyl Chloride) and PVA(Poly Vinyl Acetate). It is used for leather, seats, PVC films, electrical wires, plastic products and paint.
DINP (DIISONONYL PHTHALATE)	<ul style="list-style-type: none"> DINP is a general plasticizer, next to DOP. It is used for PVC films, leather, seats, electrical wires and paste sol.
DBP (DIBUTYL PHTHALATE)	<ul style="list-style-type: none"> It is more used for compatibility than durability purpose. As a plasticizer for PVCs, it is used for construction materials, resin for paint, adhesives and lubricants.
DOA (DIOCTYL ADIPATE,DI- 2-ETHYLHEXYLADIPATE[DEHA])	<ul style="list-style-type: none"> Low temperature resistance,light stability heat-resistance and viscosity stability are excellent. It is mainly used for low temperature resistant plasticizer for PVCs, and also used for base oil of synthetic lubricant and high or low temperature grease additives.
DINA (DIISONONYL ADIPATE)	<ul style="list-style-type: none"> It is used for food packaging films, general films and leather.
DIDP (DIISODECYL PHTHALATE)	<ul style="list-style-type: none"> It has volatility resistance,heat stability and electric insulation. It is used for heat resistance electrical wires, leather for automobiles, compound and paste.
NEO-P (CARBOXYLIC AROMATIC ESTER)	<ul style="list-style-type: none"> It has good heat-resistance and durability due to a unique structure of its alkyl group. In comparison DINP, DIDP which are general plasticizers, It has middle performance between DINP and DIDP. It's possible to be substituted for DIDP.
NEO-T; DOTP (BENZENDICARBOXYLIC ACID, BIS(2-ETHYLHEXYL) ESTER)	<ul style="list-style-type: none"> It is widely known as environmental friendly plasticizer, DOTP. It has an excellent heat resistance and increases transpanracy.
TINTM (TRIISONONYL TRIMELLITATE)	<ul style="list-style-type: none"> Excellent performance in Heat-resistance, Chemical Resistance. Widely used in electrical wires and cables
TOTM (TRIOCTYL TRIMELLITATE)	<ul style="list-style-type: none"> It is heat-resistant plasticizer and is widely used for covering material of vinyl electrical wires as a heat resistant plasticizer. It is also used for heat resistant wire, heat resistant leather, films and compound.
OLICIZER-20N (Adipic acid Polyester)	<ul style="list-style-type: none"> Excellent in volatility-resistance, migration-resistance, oil resistance and water-resistance. Well mixed with PVC. plasticizers of the non-phthalate type. Area requiring Oil-resistance hose, deformity-resistance cable and solvent proof and Oil-resistance.
PYRO-C (MIXED ALCOHOL ESTER)	<ul style="list-style-type: none"> Due to a good volume receptivity property, excellent mechanical properties in its plasticizing efficiency, this can be used in heat-resisting electric wire and cable materials. This has a cost-reduction effect in process, because specific gravity value is relatively low.
NEO-C (MIXED ALCOHOL ESTER)	<ul style="list-style-type: none"> Neo-C is environment-friendly plasticizer, made by a vegetable carboxylic acids from nature. This is a Special freeze-resisting plasticizer which is close to DINA(DI ISO NONYL PHTHALATE).

Product Specifications

ITEM	DOP	DINP	DOA	TOTM	TINTM	DBP	DIDP	NEO-P	DINA
Color(APHA)	20↓	20↓	20↓	40↓	30↓	25↓	25↓	25↓	30↓
Specific gravity (20/20°C)	0.986 ±0.003	0.976 ±0.003	0.927 ±0.003	0.990 ±0.003	0.979	1.048 ±0.003	0.968 ±0.003	0.961 ±0.004	0.922 ±0.003
Acid value (KOH mg/g)	0.02↓	0.02↓	0.04↓	0.10↓	0.10↓	0.05↓	0.03↓	0.03↓	0.10↓
Ester value	287±3	267±3	302±3	307±3	99.0↓	403±3	251±3	99.0↑	280±3
Refraction index (nD25)	1.485±0.003	1.484±0.003	1.446±0.003	1.484±0.003	1.485	1.491±0.003	1.484±0.003		1.452±0.003
Heat loss (wt%)	0.07↓	0.07↓	0.10↓	0.10↓	0.10↓	0.30↓	0.08↓		0.20↓
Volume resistance (Ωcm, 30°C)	4.0×10 ¹¹ ↑	5.0×10 ¹¹ ↑	5.0×10 ¹¹ ↑	4.0×10 ¹¹ ↑	5.0×10 ¹¹ ↑	3.0×10 ⁹ ↑	4.0×10 ¹¹ ↑		5.0×10 ¹¹ ↑

ITEM	PYRO-C	OLICIZER-20N	NEO-T	NEO-C
Color(APHA)	20↓	200↓	15↓	50↓
Specific gravity (25/25°C)	0.962 ±0.003	1.0~1.2	0.983 ±0.003 (20/20)	0.937 ±0.03 (20/20)
ACID VALUE (KOH mg/g)	0.03↓	2.0↓	0.03↓	1.0↓
Refraction index (nD25)	1.4410~1.4425	1.465± 0.003		
Volume resistance (Ωcm, 30°C)	1.0×10 ¹⁰ ↑	1.0×10 ¹⁰ ↑	4.0×10 ¹¹ ↑	4.0×10 ¹¹ ↑
Viscosity (cps, 25°C)	42(20°C)	2,500±300	80(20°C)	22±3(20°C)

Test Method

ITEM	TEST METHOD
Color(APHA)	B06-PD01 (JIS K 6751)
Specific gravity (20/20°C)	B06-PD02 (JIS K 6751)
ACID VALUE (KOH mg/g)	B06-PD04 (JIS K 6751)
Refraction (nD25)	B06-PD03 (JIS K 6751)
Volume resistance (Ωcm, 30°C)	B06-PD08 (JIS K 6751)
Viscosity (cps, 25°C)	B06-P005 (ASTM D 4878)

LG Chemical LGflex TINTM Plasticizer

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Features: New plasticizer is required high heat-resistance and weatherability because it is strengthen of UL standard. LGflex TINTM is excellent ins higher heat-resistance and weatherability than commercialized production. Application: UL 105 Å°C Wire, Migration Resistance Wire & Sheet and Cable Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LGflex-TINTM-Plasticizer.php

Physical Properties	Metric	English	Comments
Viscosity	270 cP	270 cP	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Molecular Weight	588 g/mol	588 g/mol	

Thermal Properties	Metric	English	Comments
Melting Point	-33.0 Å°C	-27.4 Å°F	Freezing Point
Boiling Point	33.0 Å°C	91.4 Å°F	
	@Pressure 0.000667 MPa	@Pressure 0.0967 psi	

Chemical Properties	Metric	English	Comments
Acid Value	<= 0.10	<= 0.10	
	@Treatment Temp. 125 Å°C, Time 10800 sec	@Treatment Temp. 257 Å°F, Time 3.00 hour	After Heating, KOH mg/g; JIS K6751

Descriptive Properties	Value	Comments
Acidity	<0.1 KOH mg/g	JIS K6751
Color	<30 APHA	JIS K6751