

DOVERGUARD E-35 and E-40

Chlorinated Esters
for Secondary Flame
Retardant Plasticizers

Doverguard E-35 and **E-40** are patented chlorinated esters that are used in PVC applications as secondary flame retardant plasticizers. **Doverguard E-35** and **E-40** can be used as cost effective replacements of phosphates and phthalates and as an alternative to chlorinated paraffins. They offer improved compatibility, melt processing and increased efficiency. The maximum loading level is formulation dependent.

Additional benefits versus common phthalate plasticizers:

- ▶ Acts as a flame retardant
- ▶ Lower volatility
- ▶ Lower water extractability
- ▶ Increased flex strength
- ▶ Lower plastisol viscosity
- ▶ Not listed on Prop 65
- ▶ Based on renewable materials from plant sources (new carbon)
- ▶ Not considered a substance of very high concern (SVHC)
- ▶ The US-EPA has reviewed Doverguard E-35 and E-40 and in 2018 cleared them for use in all metalworking and plastic applications

PROPERTY	TYPICAL RESULT
Chlorine, %	35-40
Specific Gravity	1.16
Density (lb/gal)	9.6
Viscosity @ 25°C	6
Pour Point (°C)	<-30
Color, Gardner	<2

It is recommended to store Doverguard E-35 and E-40 in temperatures ranging from 80° to 100°F. Darkening of products may result due to prolonged exposure to temperatures exceeding 100°F.

LGP-11®, LUBE-BOOSTER®, MAYCO®, PAROIL®, SUL-PERM®, SYN-CHEK®, SYNKAD®, CHLOREZ®, CHLOROWAX 40®, CHLOROWAX 50®, DOVERNOX®, DOVERPHOS®, DOVERPHOS HIPURE®, and DOVERPHOS S-9228® are federally registered trademarks of Dover Chemical Corporation.

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