



Anderson Development Company

Plasticizer Guide

Plasticizers for Polyether Systems:

Andurflex DOP

- DEHP, dioctyl phthalate, di-2-ethylhexyl phthalate
- Does a good job of lowering viscosity without lowering the hardness
- FDA approvable for wet or dry food contact

Andurflex DOA

- Dioctyl adipate
- Does a good job of lowering viscosity without lowering the hardness; less health and safety issues than DOP
- FDA approvable for wet or dry food contact

Plasticizers for Polyester Systems

Dibutyl Phthalate (DBP)

- FDA approvable for wet or dry food contact

General Comments:

If preblending the plasticizer and the prepolymer, try to use in a short time frame, unless %NCO stability has been proven.

If a plasticizer is used that isn't compatible with the prepolymer, bleeding of the elastomer is likely to occur.

In general, phthalate-based materials are not being used as much due to REACH regulations in Europe.

Plasticizers for Polyether or Polyester Systems

Andurflex 9-88 SG

- Dipropylene glycol dibenzoate
- Equivalent to Benzoflex® 9-88 SG
- Can be added in very high amounts
- Good for lowering durometer for very soft parts
- General rule of thumb: Add 5pph + 2pph per durometer unit drop
- For large drops in hardness add 2pph per durometer unit drop desired

Santicizer 160

- Butyl benzyl phthalate
- Similar to Andurflex 9-88 SG, but doesn't decrease durometer quite as effectively

Andurflex materials available from ADC

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