

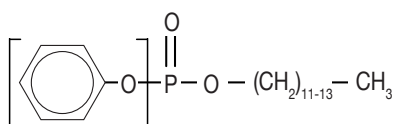
Phosflex[®] 418

Phosflex[®]
Flame Retardant Plasticizers

Chemical Name: Linear alkyl diphenyl phosphate ester

CAS #:

Dodecyl diphenyl phosphate	27460-02-2
Tetradecyl diphenyl phosphate	142474-86-0
Hexadecyl diphenyl phosphate	56827-92-0
Triphenyl phosphate	115-86-6



Overview

Phosflex 418 is in the class of premium phosphate esters used for flame retarding flexible PVC. Some of the major advantages of using this material are its low volatility, excellent low temperature flexibility, low smoke generation and good flame retardancy. This alkyl aryl phosphate can be formulated to pass the difficult Steiner Tunnel test E 84 and UL equivalent FR protocols. It is one of the first choices in formulations of demanding FR vinyl wire and cable insulation and jacketing compounds. Phosflex 418 can also provide the necessary blend of properties required for other FR flexible vinyl applications such as sheet goods and films.

Typical Properties:

Physical appearance	Clear, transparent liquid
Phosphorus content wt. %	7.29
Specific gravity 20°C/20°C	1.036
Density @ 20°C lbs/gal	8.6
Density @ 20°C kg/m ³	1036
Viscosity @ 25°C mPa.s	23
Acidity mg KOH/g	0.20
Water content wt. %	0.10
Color APHA	<200

Thermogravimetric Analysis

(10°C/min. in nitrogen):

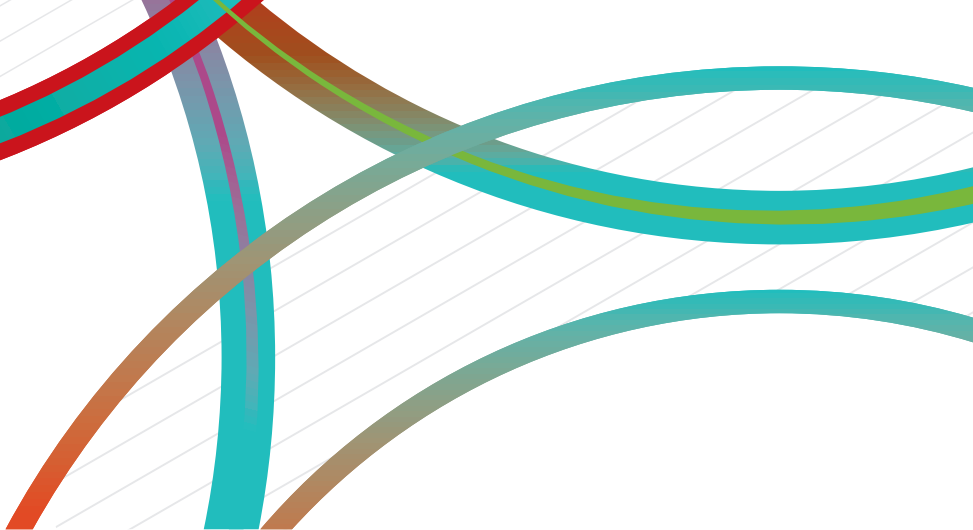
5% wt. loss	215°C
10% wt. loss	235°C

Safety & Handling

Consult the Safety Data Sheet for this product.

Shipping Information

Available in bulk tank trucks, isocontainers, 2,300 lb totes, and 480 lb drums.



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