

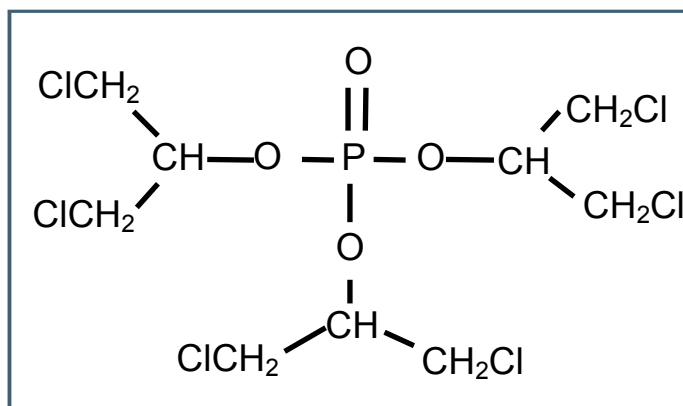
# Product Bulletin

supresta™  
BUILT-IN DEFENSE

## Fyrol® FR-2 LV

**Fyrol®**  
Flame Retardants

**Chemical Name:** Tris (1,3-dichloroisopropyl phosphate)



### Fyrol Product Selector

	Key polyurethane foam application	Key characteristic
6	Rigid, flexible-flame lamination	Reactive flame retardant.
38	Flexible	Low scorch.
FR-2	Flexible	Excellent hydrolytic stability, low volatility, low fogging, and processing characteristics.
FR-7	Flexible	Good compression set, IFD and scorch properties, low volatility, low scorch, and good processing characteristics.
HF-4	Flexible	Halogen-free, low scorch with good compression set and IFD properties. Recommended for Cal 117 and MVSS 302 foams.
PCF	Rigid, flexible-BS5852	Excellent hydrolytic stability.
PNX	Flexible	Highly efficient halogen-free flame retardant.
TEP	Rigid	Halogen-free flame retardant, excellent viscosity reducer for high viscosity polyols.

### Overview

Fyrol® FR-2 LV is an additive flame retardant commercially used in flexible and rigid polyurethane foams. Its superiority is demonstrated in excellent hydrolytic stability, low volatility and processing characteristics, which enable it to be incorporated into foam formulations with little or no effect upon processing.

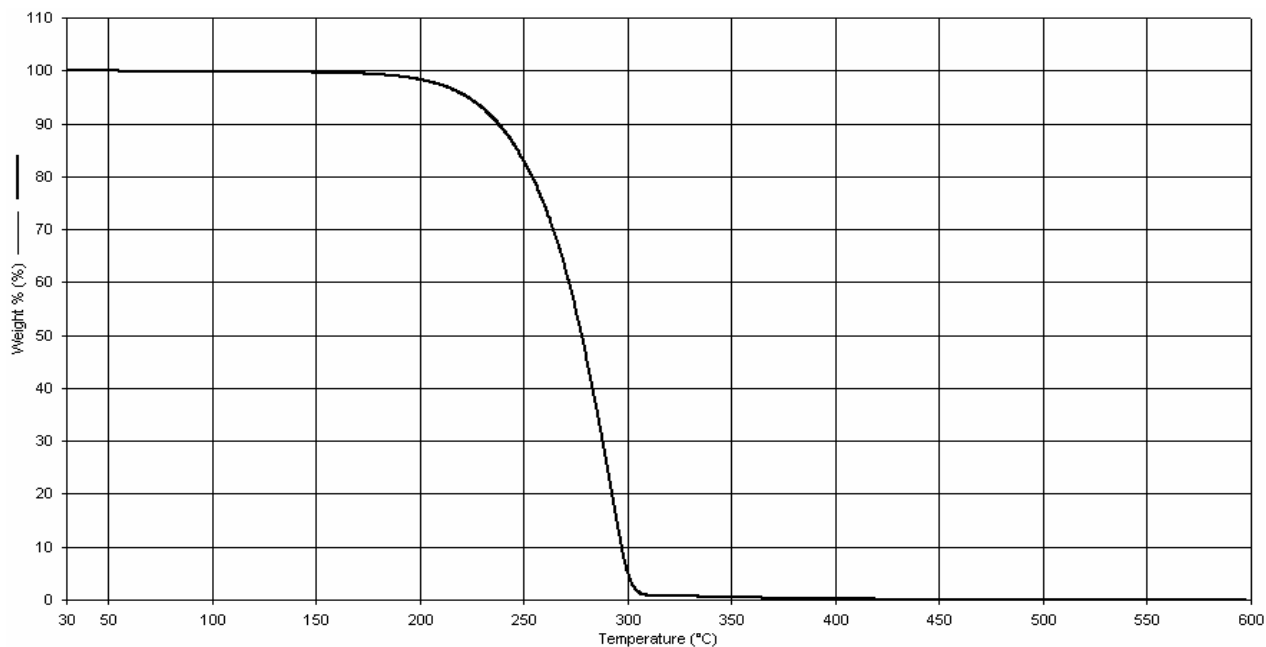
### Key Applications

Fyrol® FR-2 LV is available for use in flexible and rigid polyurethane foam. The product has excellent hydrolytic stability, low volatility and good processing characteristics. The product is a low viscosity version of Fyrol FR-2 with similar flame retardant performance but less tendency to crystallize.

### Typical Properties

Appearance (visual)	Clear, transparent liquid
Colour (apha)	60
Viscosity at 25°C (mPa.s)	1300 (ASTM D-1824)
Acidity (mg KOH/g)	0.01 (ASTM D-974)
Water content (% wt)	0.02 (ASTM D-1744)
Phosphorous content (% wt)	7.3 (ASTM E-357)
Chlorine content (% wt)	47.0 (ASTM E-256)
Density at 25°C (kg/m3)	1483 (ASTM D-1298)
Boiling point	200°C
Flash point (COC)	218°C
Water solubility @ 30°C	0.1 g/l

## Thermogravimetric Analysis: Fyrol® FR-2 LV (10°C rise/minute in nitrogen)



2% wt. Loss	204°C
5% wt. Loss	223°C
10% wt. Loss	238°C

### Safety & Handling

Consult the Material Safety Data Sheet for this product.

### Shipping Information

Available in bulk tank trucks, 1360 kg IBC and 306 kg drums.

For more information about our products and to place an order, please contact one of Supresta's regional sales offices.

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