

Yoke Chemicals and New Materials (Shanghai) Co., Ltd.

and its subsidiaries Shekoy Chemicals Europe and USA

Technical Data Sheet

PhireGuard BDP

General Description and Use

PhireGuard BDP is a halogen free flame retardant that belongs to the family of the oligomeric phosphate esters. It is based on bisphenol A bis-diphenyl phosphate as the monomer.

The use of PhireGuard BDP is particularly suited for engineering resin alloys like PC/ABS and PPO-PPE/HIPS used in electric and electronic applications. Depending on the fire safety code aimed at, some 8 to 18 phr of PhireGuard BDP are commonly used. In contrast with brominated flame retardants, PhireGuard BDP does not require the use of a synergist (typically Antimony Oxide), which constitutes an advantage in terms of recyclability of the goods.

In addition, its low volatility and thermal stability lies well within the processing conditions of most engineering thermoplastic resins. PhireGuard BDP, due to its marked flowability, allows the production of thin wall mouldings.

Finally, its resistance toward hydrolysis compared to other flame retardants impart the final good with enhanced cracking and “juicing” properties.

Typical Properties ¹⁾

Physical appearance	Amber/Yellow Translucent Liquid
Phosphorus content, wt%	9
Specific Gravity @ 20°C	1.26
Viscosity @ 70°C, cPs	160
Acid value, mgKOH/g	< 0.1
Water content, wt%	< 0.05
Colour APHA	<100
TGA 5% wt loss, °C	329

1) Please refer to the Certificate of Analysis for exact properties

Safety Information

Yoke Chemicals and New Materials (Shanghai) Co., Ltd. is committed to the health and safety of its customers and employees.

Avoid breathing vapour and mist. In case of direct contact with eyes or skin, rinse immediately with plenty of water and seek medical advice. In case of ingestion, rinse mouth with water and seek medical advice.

In any case wear suitable protective clothing and do consult the material safety data sheet of this product prior to utilization.

Handling and Shipping Information

Product is available in isocontainers (max. 25 t), totes (1250 l) and drums (250 l / 55 US gal).

Product must be stored in dry, cool area away from direct sun exposure and kept away from humidity and water contamination. Handle in accordance with good professional hygiene and safety procedures. Use in well ventilated areas.

In case of spillage, use a shovel or any other appropriate tool to collect the spill and place it into a chemical waste container. Do prevent spill from entering water supplies or water courses.

Contacts

May you require any further information regarding this product or any other product commercialized by the Jiangsu Yoke Technology Corporation, please do contact one of our following facilities at your best convenience:

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