

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



and its subsidiaries Shekoy Chemicals Europe and USA

Technical Data Sheet

PhireGuard RDP

General Description and Use

PhireGuard RDP is a halogen free flame retardant belonging to the oligomeric phosphate esters family. It is based on resorcinol bis-diphenyl phosphate as the monomer.

PhireGuard RDP is designed for being used in a variety of resin applications like PPO (PPE) alloys, PC/ABS and terephthalate-based polymers (PET, PBT).

PhireGuard RDP thermal stability and low viscosity made it well-suited for most thermoplastic resins requiring high processing temperature as well as for complex and thin wall moulded objects.

PhireGuard typical loading ranges from 7 to 15 phr to provide the desired flame retardancy to the resin in which it is used.

Next to its flame retardant characteristic, PhireGuard RDP can be used as melt flow improver (1-3 phr) with minimal loss of dimensional stability.

In addition, another advantage offered by PhireGuard RDP lies in low viscosity, which implies a greater use of handling and lower heat storage condition.

Typical Properties ¹⁾

Physical appearance	Amber/Yellow Translucent
Phosphorus content, wt %	Liquid
	10.7
Specific gravity @ 25°C	1.31
Viscosity @ 25°C, cPs	500
Acidity, mg KOH/g	<0.1
Water content, %wt	<0.05
Colour, APHA	<100
TGA 5% wt loss, °C	325

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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