

## **New Product - Halogen free PP V0 Compounds**

Perrite have enhanced their extensive flame retardant product offering with the inclusion of a range of halogen free PP V0 compounds. Working in collaboration with a major domestic appliance manufacturer, these compounds satisfy all IEC 60335-1, UL746A, Proposition 65 and part performance requirements and are V0 rated at 1.6mm. They also offer a 20% weight saving over halogenated PP Flame retardant compounds with good all round physical performance. Formulation development was carried out in Perrite's Warrington Technical Centre using a Berstoff ZE25 twin-screw extruder. Process development and plant scale up was then undertaken using both a Berstoff ZE40 in Perrite's Malaysian development laboratory and on a Coperion ZSK70SC. The compounding process uses an optimised screw configuration to allow high output rates at a low specific energy input. This ensures the stability of both the compound during processing and an optimum balance between flame retardant properties, physical performance and ease of moulding. This product is a notable addition to Perrite's existing flame retardant product range that includes halogenated V0 PP, ABS, PA and PS and halogen free V0 PA, PC, PC ABS. Also available are a range of Glow wire and V2 rated compounds for enclosures and household electrical equipment applications. In these applications, the flame retardant performance is optimised to give the highest possible mechanical performance and lowest product density. This product range is available in a full range of custom colours and application development is supported from Perrite's UK technical centre.