

Ongard® 2 in Rigid PVC Applications



Rigid PVC is inherently flame retardant but the addition of flammable impact modifiers and process aids reduces the fire performance. The more stringent flammability tests such as the *British class 1 spread of flame*, *German B1* and *French M1* classes can only be met with the addition of a flame retardant synergist.

The most common product used in such applications is Antimony Trioxide (ATO) but *Ongard 2* offers superior performance with the added benefit of smoke suppression. Since *Ongard 2* can be used at lower load levels than ATO it gives a low cost in use for a given formulation even if the cost/kg is higher.

Product Features . . .

- Works as flame retardant synergist in Rigid PVC
- Comparable flammability performance to ATO but at lower loadings
- Offers a more cost effective formulation
- Suitable for Heavy Metal Free applications
- Enables formulations to meet most stringent flammability specifications
- Added benefit in reducing smoke production
- Greater price stability than ATO

The following example shows the savings possible for a customer using ATO at approximately 100 metric tonnes per annum. The savings could be much greater for larger volume users.

Product	Usage Rate	Annual Volume	Price	Total Annual Cost to Customer
TMS-P	2 Parts	100 mt	€2.80 / Kg LMB \$2900, 10 mt orders	€280,000
Ongard 2	1 Part	50 mt	€3.74 / Kg List for 5 mt orders	€187,000

- Annual cost improvement to Customer - €93,000
- Antimony free formulation – Heavy Metal Free formulation
- Customers will see less price fluctuation