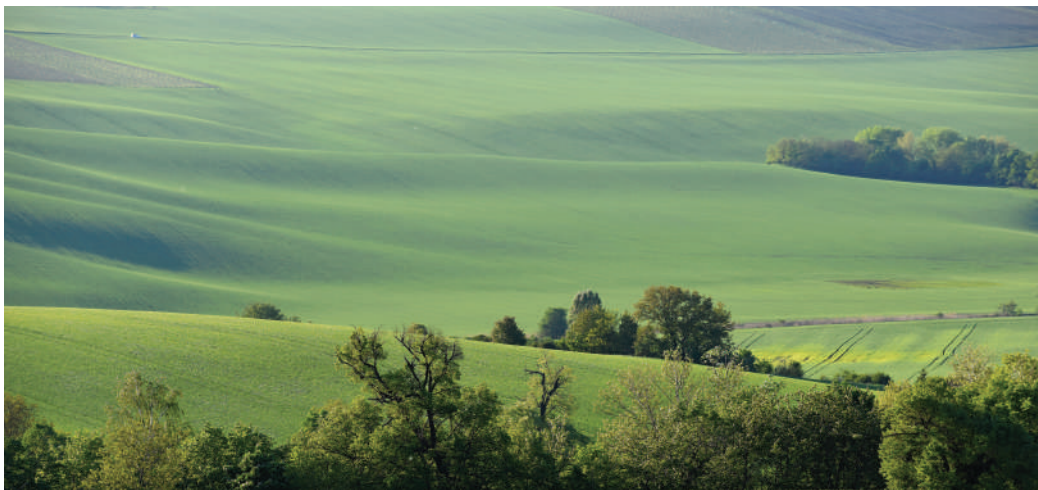


## HBCD-FREE FLAME RETARDANT (FR) MASTERBATCH

In response to market demand for products that are more environmentally friendly, and for additives that can be used with materials that are increasingly made from recycled materials, Tosaf has developed an HBCD-free FR masterbatch for extruded foamed polystyrene (XPS). The masterbatch can be polymer based, non-polymeric based or a combination of the two, depending on the customer's need for thermal stability and the level of use of the recycled polymer in the final product. This masterbatch is recommended for greener, low-bromine boards.

### FR1611PS has been approved for the following FR standards:

- 0.8-2% for DIN 4102 B2
- 0.8-2% for EN13501-1 E class
- 3-5% for DIN 4102 B1 standard



As a leading producer of flame retardants for industrial applications for more than 30 years, we offer an extensive, tailor-made product range of flame retardant masterbatches and compounds to meet market demand. We offer both high-end solutions that meet the most stringent regulations, such as HBCD-free polymeric and non-polymeric FR, and more cost-effective solutions with HBCD. Using premium-quality active ingredients and innovative formulations, we help our customers to achieve high-level product performance, while keeping in mind resource efficiency and environmental protection.

Sharing with you our know-how and years of experience, we will advise on which flame retardant masterbatches are best suited to your needs, how to use them, and the correct addition levels, to optimize them for both your production process and end-user applications.

**Applications: inverted roof, floors and ceilings, external walls**

### ADVANTAGES



HBCD  
free



Environmentally  
Friendly



Thermal  
Stability



Non-migrating  
polymeric additives



No effect  
on processability



For high levels of  
recycled polymer

