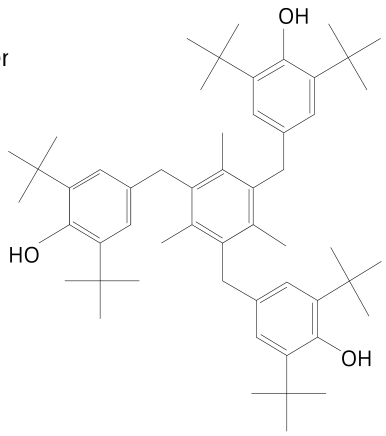
YFK-330

Chemical Structure

Chemical Name	1,3,5-- Trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxyber
Cas No.	1709-70-2
Molecular Weight	775



Specifications

Appearance	White crystalline powder
Volatile Loss %	<= 0.3
Solubility	Clear
Melting Range (°C)	241.0 ~ 245.0
Ash Content %	<= 0.1
Transmittance %, 425nm	>= 96.0
Transmittance %, 500nm	>= 98.0
Content %	>= 98.0

Usage Notes

Properties	It is a highly effective hindered phenolic antioxidant for phenol processing and long-term primary antioxidant, which is widely applicated in various polymers, synthetic fibers, elastomers, adhesives, waxes, oils and greases. It can effectively prevent thermo-oxidative degradation of these substances.

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Performance	It is a tasteless additive with good compatibility with most organic compounds, excellent extraction resistance, and outstanding dielectric properties. It can be used in combination with other additives, such as sulfide and phosphite auxiliary antioxidants, light stabilizers, and other functional stabilizers. The combination of YFK-330 with YFK-168 shows particularly strong performance. It is especially suitable for polyolefin applications requiring water extraction resistance and color stability, and it effectively enhances the water extraction resistance of polypropylene flat fibers.
Applications	It is suitable for use in polyolefins such as polyethylene and polybutene pipes, molded products, wires and cables, and dielectric films. It is also compatible with other polymers, including homopolymers and copolymers of linear polyesters, polyamides, and styrenics used in engineering plastics. Additionally, it can be applied in PVC, polyurethane, elastomers, adhesives, and other organic materials.
Storage	This product is stable under normal conditions and does not have any special storage requirements. However, it should be protected from moisture and heat.
Recommended Dosage	For polyolefins, the recommended dosage ranges from 0.05% to 0.3%, depending on the polymer type, processing conditions, and long-term thermal stability requirements. The optimal concentration should be determined based on specific product performance needs. For hot melt adhesives, the typical dosage is 0.2% to 1.0%, and for synthetic tackifying resins, 0.1% to 0.5%. For detailed technical specifications, please contact us.
Packaging	The product is packaged in 25 kg paper bags or cartons.