

## Technical Data Sheet

Product Commercial Name: RY 330

Description: Antioxidant

Chemical Name: 1, 3, 5-Trimethyl-2, 4, 6-tris (3, 5-di-tert-butyl-4-hydroxybenzyl) benzene

Chemical Formula: C<sub>54</sub>H<sub>78</sub>O<sub>3</sub>

Molecular Weight: 775.2

CAS No.: 1709-70-2

### Product Description

RY 330 belongs to the hindered phenol antioxidant with high molecular weight. It is applicable to some elastomeric materials, like thermoplastic polyester (e.g. polyolefin, PET and PBT), polyamide, and styrene resin as well as polyurethane and natural rubber. It also has excellent compatibility with most organics and extraction resistance. It features as tastelessness, low volatilization, high efficient antioxidant and excellent insulation, etc.

RY 330 is especially applicable to the processing field at high temperature such as polyolefin (such as PP and PE) tubing, injection molding products, wire and cable model goods, metal wire and film slide products. RY 330 has excellent synergistic effects with auxiliary antioxidant and carbon radical scavenger such as phosphite ester, sulpho-ester and benzofuran ketone; particularly, when it is mixed with antioxidant 168, the additive effect is extremely remarkable. RY 330 is especially applicable to polyolefin products with water resistance extraction and color requirements. Meanwhile, RY 330 can improve the water resistance extraction of polypropylene flat yarn.

### Specification

RY 330	Appearance	Ash content	Volatile matter	Transmittance
	White powder	≤0.1%	≤0.1%	≥97% (425nm)
				≥98% (450nm)

### Physical Property

RY 330	Melting point ℃	Flash point	Specific gravity 20℃	PH	Vapor pressure 20℃	Bulk specific gravity g/l
	240-245	321	1.04	5-6.8	CA20E-12PA	530-630

**Solubility (20°C) g/100g solution**

	Acetone	Chloroform	Ethyl acetate	Normal hexane	Methanol	Water
RY 330	18	28	27	10	3	<0.01

**Scope of Application**

Based on the fact that the application resin, processing conditions and application environment have different requirements for the durability and stability of products, the recommended dosage for RY-330 is as follows: the additive content of polyolefin resin is 0.05-0.3%, and the additive content of hot melting adhesive is 0.2-1.0%. The synthetic tackifier resin antioxidant RY-330 is a kind of high-efficient stabilizing agent with low color pollution. Its scope of application covers polyethylene, polypropylene, polybutylene and other high polymers. And it can also be mixed with other additives such as auxiliary antioxidant, light stabilizer and antistatic agent. Its additive content is 0.1-0.5%.

**Safe Disposal**

Strictly follow the industrial operation specification, handle with care, avoid environmental pollution, avoid forming dust, and keep the product away from fire.

**Package and Storage**

Net 20KGS / PE bag unit, net 500KGS / Carton / Pallet.

The product should be protected against moisture and damp during transportation and stored in dry and ventilated place away from the fire source.

**Storage Life**

24 months from production date.