Unilong Industry Co., Ltd

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Technical Data Sheet

Product Name: TAC
CAS: 101-37-1
Packing: 25kg/drum or 200kg/drum
Product Introduction： TAC is a pale yellow to colorless liquid or crystal at room temperature, with a melting point of 25 to 27℃ and a density of 1.1133g/mL(at 30℃). Viscosity: 1.26×10-2Pa·s(at 30℃). Refractive index: 1.5049(25℃). It is insoluble in water but soluble in ethanol, acetone, heptane, petroleum ether, solvent oil, soybean extract oil, halogenated hydrocarbons, etc. It has stable performance at room temperature and can be stored stably for a long time.

Chemical composition:

ITEM	TA-G
Appearance	Pale yellow liquid
Content (%)	≥ 98.0
Acid value(mgKOH/g)	≤ 0.3
Melting point(℃)	25-27
Moisture(%)	≤ 0.1
Chroma(APHA)	≤30
Proportion(23℃, g/cm^3)	1.100-1.115

Application field

Crosslinked TAC (triallyl cyanurate) is a tri-functional crosslinking agent that can significantly enhance the strength, rigidity and heat resistance of plastic products, enabling the products to be used for a long time at around 250℃.

Therefore, it is a new type of crosslinking agent for preparing high-performance unsaturated polyester and acrylic series resin products. It is especially suitable for preparing high-temperature resistant and high-strength fiberglass reinforced plastic products.

It can also be used in the rubber and cable industries as a vulcanization accelerator for highly saturated rubber to enhance the vulcanization effect. It can also be used as a photosensitizer for polyene irradiation crosslinking to reduce the irradiation dose.