



Mayzo Makes It Possible

BLS[®] 1710

UV Absorber / Light Stabilizer for Plastics

Overview

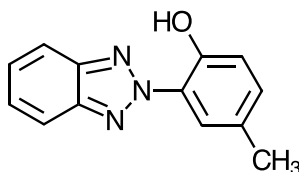
BLS 1710 is a benzotriazole UV absorber, which is highly effective for the light stabilization of plastics, and is especially suited for use in PVC, styrenic polymers, unsaturated polyesters, acrylics, and polyvinyl butyral. It protects the polymers from UV radiation helping to preserve the original appearance and physical integrity.

Chemistry

Chemical Name: Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-

CAS Number: 2440-22-4

Chemical Structure:



Typical Properties

Product Form: Solid
Melting Range: 128 – 132°C
Molecular Weight: 225.2 g/mol

Solubility (percent by weight, 20°C)

Acetone	3	n-Hexane	0.8
Benzene	7	Methyl ethyl ketone (MEK)	4
Butyl acetate	3	Methanol	0.2
Carbitol	2	Methylene chloride	16
Chloroform	13	Methyl methacrylate	5
Diethyl phthalate	2	Mineral spirits	1.5
Ethanol	0.3	Styrene	7
Ethyl acetate	3	Water	<0.01

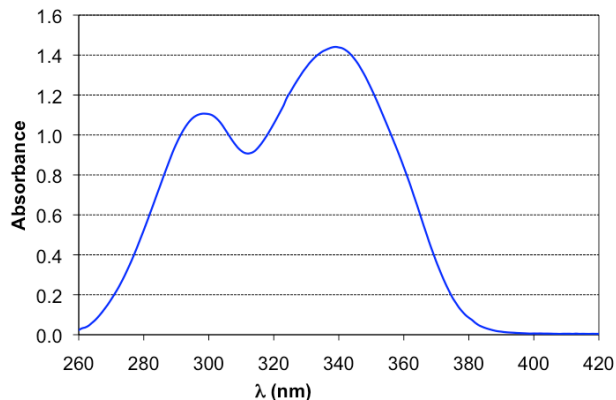
Applications

BLS 1710 is useful for the light stabilization of a wide range of plastics, including PVC, styrenic polymers, unsaturated polyesters, acrylics, and polyvinyl butyral. Specialty applications include adhesives, sealants, epoxy resins, and elastomers.

Advantages

- Strong absorption of ultraviolet radiation in the 300-400 nm region
- Low color contribution
- Good compatibility and solubility
- FDA cleared for use in acrylics, PVC, polystyrene, polycarbonate, and PET

UV Absorbance Spectrum (20 mg/L in ethyl acetate)



Guidelines for Use

Typical recommended use levels range between 0.1% and 0.5% in plastics. Combinations with other light stabilizers such as HALS and benzoates often show enhanced performance. The exact formulation to be used is dependent on the substrate, performance requirements, and other factors, and should be determined by the user based on testing to simulate actual conditions of use. Please contact Mayzo for specific recommendations.

Storage

This product may be stored up to two years in a sealed container. Containers should be kept tightly closed when not in use and stored in a cool, dry place.

Safety

Please consult the Safety Data Sheet (SDS) prior to handling or using this product.

FDA Regulations

BLS 1710 has been cleared under 21 CFR §178.2010 for use in acrylic and modified acrylic plastics, rigid polyvinyl chloride and vinyl chloride copolymers, polystyrene (including rubber-modified polystyrene), polycarbonate resins, and ethylene phthalate polymers. Please contact your Mayzo representative for complete details, including restrictions of use.

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