LOWINOX[™] TBM-6 stabilizer

Thiophenol Antioxidant

Description

LOWINOX[™] TBM-6 stabilizer is a non-staining and non-discolouring hindered thiophenol antioxidant.

Chemical Name

4,4'-Thiobis(2-t-butyl-5-methylphenol)

Synonym

2,2'-Methylenebis(6-t-butyl-4-methylphenol) 2,2'-Methylenebis(6-t-butyl-4-methylphenol)

CAS-Number:

96-69-5

Formula LOWINOX[™] TBM-6 stabilizer



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Mar 2019

Typical physical properties of LOWINOX[™] TBM-6 stabilizer

| Appearance | White crystalline powder |
|----------------------------------|--------------------------|
| Molecular weight [g/mol] | 358 |
| Particle size distribution d(50) | 180-200 microns |
| Assay | Min. 98% |
| Melting range [°C] | 160.0 - 164.0 |
| Volatiles | 0.1% Max |
| Ash Content | 0.05 % Max |
| Iron Content | 5 ppm |
| Color Apha | Guaranteed 50 Max |

Solubility (g/100g solvent) @ 20°C

| Water | 0.08 | Diethyl ether | 0.5 |
|---------|------|---------------|---------|
| Acetone | 20 | Methanol | 79 |
| Ethanol | 47 | Hexane | 0.5-1.0 |

Thermogravimetric Analysis (10 mg @ 10°C/minutes under N₂)

| Weight Loss [%] | 5 | 10 | 50 |
|------------------|-----|-----|-----|
| Temperature [°C] | 214 | 227 | 267 |

Applications

LOWINOX[™] TBM-6 stabilizer is used as an antioxidant in HDPE and LDPE for tubes, water and gas pipes, connectors, high voltage cables and greenhouse films. LOWINOX[™] TBM-6 stabilizer has high resistance to thermo-oxidative degradation and washout, excellent

compatibility with peroxides and great synergism with carbon black. **LOWINOX™ TBM-6 stabilizer** is also used as a polymerisation and processing stabiliser (PP, ABS, PVC, EPDM and polybutadienes), an anti-skinning agent for hot melt adhesives, an anti-scorching agent for polyurethanes during condensation of TDI on polyesters, and a heat stabilizer for lubricants.

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Handling and Storage

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless otherwise stated, the shelf life of the product is 5 years when it is properly stored.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet.

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