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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



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	nt 0.05 % Max		
Iron Content	5 ppm	5 ppm	
Color Apha	Guaranteed 50 Max	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

LOWINOXTM **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**TM **TBM-6 stabilizer** has high resistance to thermo-oxidative degradation and washout, excellent

compatibility with peroxides and great synergism with carbon black. **LOWINOX**TM **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.