

Technical Data Sheet

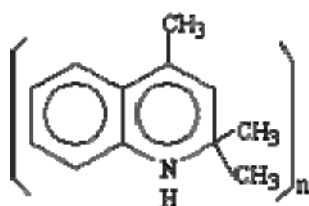
Antioxidant TMQ

2,2,4-Trimethyl-1,2-dihydroquinoline,

CAS NO.:26780-96-1

Chemical Molecular (C₁₂H₁₅N)_n

Chemical Structure



APPLICATION

A rubber antioxidant. A kind of amine antideteriorant. The property of anti-heat oxide is good. A radical scavenger in a wide range of elastomers to protect against oxidative aging. TMQ provides oxidation protection to nearly all elastomer types in a variety of applications, having a wide range of temperatures exposure. The long persistence in rubber allows it to provide long term heat aging resistance to rubber compounds. Inhibits oxidation catalyzed by heavy metals such as copper and manganese. As a result of its high molecular weight, it migrates slowly within the rubber matrix and does not bloom. Used in light compounds, but will cause some minor discoloration. It causes only minimal staining.

HANDLING PRECAUTIONS

For detailed information on toxicological properties and handling precautions please refer to the current Safety Data Sheet.

STORAGE RECOMMENDATIONS

Store TMQ in single stacked pallets in a cool, dry, well-ventilated area, avoiding exposure of the packaged product to direct sunlight. Double stacking of palletized material and/or exceeding 3 5 c a n result in unusual compaction of product.

PACKAGING: 25kg paper bag.

SPECIFICATION: GB/T 8826-2019

Name of Index	Specification	Test Method	Test Condition
Appearance	Amber to light brown pastille	Visual	——
Sofening point °C	80.0-100	GB/T 11409-2008 3.3	5°C/min
Heating loss %≤	0.30	GB/T 11409-2008 3.4	(55±2) °C
Ash content %≤	0.30	GB/T 11409-2008 3.7	(750±25) °C
Ethenol insolubels %≤	0.20	GB/T 8826-2019 5.6	
Isopropyl-bis-aniline content %≤	1.0	GB/T 8826-2019 5.7	HPLC
Dimer+Trimer+Tetramer content %≥	40	GB/T 8826-2019 5.7	HPLC
	Isopropyl-bis-aniline content, Dimer+Trimer+Tetramer content only tested as customers' request		