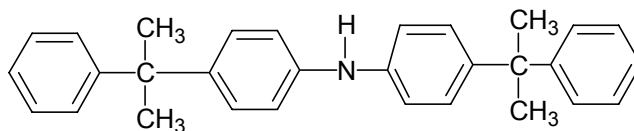


ANTIOXIDANT 405

4,4' – Bis (a,a' –dimethylbenzyl) diphenylamine



DESCRIPTION:

Akrochem Antioxidant 405 is a diphenylamine antidegradant offering excellent heat and oxidation resistance to most natural and synthetic polymers. Its low volatility is better than competitive antioxidants. It has been found using 405 in combination with Akrochem Antioxidant 58 or 60, a synergism produces outstanding heat resistance that is often used in HNBR. Non-blooming at normal loadings of 1 to 4 phr. Like other amine antioxidants, Antioxidant 405 will discolor but only very slightly. Antioxidant 405 typically can be used in most colors except very light whites or yellows. Has wide FDA acceptability where high temperature antioxidants may be needed in a food contact situation. Minimal peroxide interference; no known blooming with recommended usage levels; no effect on cure rates of sulfur cures. Relatively low melt point means exceptionally good dispersion is easy to achieve.

TYPICAL PROPERTIES:

Appearance	Light Tan Powder
Specific Gravity	1.14
Melting Point	100°C
Solubility.	Soluble in acetone, gasoline and toluene, and MEK; insoluble in water

STORAGE STABILITY:

Akrochem Antioxidant 405 will remain stable over two years if stored in closed containers in cool and dry conditions.

gpb 9/09
t-ao 405