



TT 102 MD

TT 102 MD is a high performing metal deactivator masterbatch designed for use with natural polyethylene resins used to make wire and cable jackets and insulations where these products will be in direct contact with copper conductors

Description

TT102 MD Natural Masterbatch contains a metal deactivator to impart protection from copper catalyzed degradation. **TT 102 MD** provides effective metal deactivation for materials in direct contact with copper conductors.

Applications

A 2.0% concentration by weight of the **TT 102 MD** blended with 98% polyethylene resin when extruded with good cable making practices will make cable with an extended oxidative induction time.

Physical Properties ⁽¹⁾	Typical Value ⁽²⁾	Unit	Test Method ⁽¹⁾
Density ⁽⁴⁾	0.949	g / cm ³	ASTM D 1505
Tensile Strength ⁽³⁾	1942	psi	ASTM D 638
Ultimate Elongation ⁽³⁾	744	%	ASTM D 638
Oxidative Induction Time (OIT) ⁽³⁾ 210°C Copper Pan O ₂ Purge	61.8	minutes	ASTM D 4730

- (1) Tested in accordance with the latest issue of the designated Test Methods.
- (2) Data represents typical values and should not be used for specification work.
- (3) 98% LLDPE blended with 2% TT 102 MD
- (4) Masterbatch compound property

General Blending Guidelines

Gravimetric feeders are recommended and should be set to feed 2% by weight.

Volumetric feeders can also be used and should be set to feed 1.54% by volume to accommodate the **TT 102 MD** specific gravity of 1.30.

General Processing Guidelines

Standard extrusion setups and process parameters for polyethylene extrusion will apply. Mixing screws are recommended to ensure good dispersion of **TT 102 MD**.

Recommended Screen pack: 20-60

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