



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

Liability

Information contained in this publication is accurate to the reasonable knowledge of the publisher. T & T Marketing Inc. does not accept any liability whatsoever arising out of the use of the information in this document or the use, application, adaptation or processing of the products described herein.

All information is given in good faith, without warranty, representation, inducement or license of any kind. No guarantee is given that T & T Marketing, Inc. products will be suitable in purchasers' constructions or processes for any particular end use. No one is authorized to make representations or give warranties or assume any other liabilities on behalf of T & T Marketing Inc. except if in writing and signed by a duly authorized T & T marketing Inc. employee.

The purpose of the information contained herein is to assist our present and potential customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. It is the customer's responsibility to inspect and test our products and to consult the related Material Safety Data Sheet before use in order to satisfy itself as to the contents of the information contained herein is to our knowledge accurate and reliable as of the date hereof, nothing herein shall constitute any warranty (express or implied, of merchantability, fitness or otherwise) and no statement herein shall be construed as an endorsement of any product or process. T & T Marketing Inc. shall not be liable for special, incidental, strict tort liability or any other legal theory.