

T & T Marketing TD 150 FR Natural

Thermoplastic
T & T Marketing, Inc.

Message:

TD 150FR Natural Masterbatch is a halogenated flame retardant catalyst masterbatch for use in Monosil, Ethylene Vinyl Silane Copolymer or Sioplas moisture cureable systems requiring UL-44 vertical flame performance in insulation and jacketing applications.

TD 150FR Natural Masterbatch contains a halogen-based flame retardant package designed to reduce cross-linked PE flame spread characteristics and achieve a vertical wire flame performance on #12 AWG wire and larger.

Application

A 50% concentration of the TD 150FR blended with 50% Borealis LE 4421 EVS Resin extruded with good cable making practices will pass the necessary properties such as VW-1 flame and the requirements for XHHW-2 and RHH cables as required by the UL-44 and UL-1581. Alternatively, 50% TD 150FR can be blended with commodity LLDPE resin and 1% Monosil silane mixture and also meet these specifications. The percentage of the let-down may be optimized for a particular cable size. The processing conditions, degree of cure and size of conductor can affect the results and care must be taken into consideration by each cable manufacturer to determine the required formulations for their applications.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogenated		
Uses	Masterbatch		
	Wire & Cable Applications		
Agency Ratings	UL 1581		
	UL 44		
RoHS Compliance	RoHS Compliant		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.98	g/cm ³	ASTM D1505
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	12.4	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Retention of Tensile Elongation - 7 days at 121°C	> 75	%	UL 1581
Retention of Tensile Strength - 7 days at 121°C	> 90	%	UL 1581
Hot Creep - 29 psi ¹ (150°C)	25	%	UL 44
Flammability	VW-1		UL 44
NOTE			

1. 21 days in ambient warehouse conditions 80 mil wall

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