



DOW™ Electrical & Telecommunications DFDA-7530 NT

Colorable Linear Low Density Polyethylene Compound for Cable Jacketing

Overview

Dow Electrical and Telecommunications DFDA-7530 NT is a pelleted linear low-density polyethylene (LLDPE) resin produced by Dow's UNIPOL PE Process. The primary application use is a colorable LLDPE cable jacket.

Specifications

Dow Electrical and Telecommunications DFDA-7530 NT meets the following specification:

- ASTM D-1248 Type I Category 4, Grade E4 & E5.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.921 g/cm ³	0.921 g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	0.70 g/10 min	0.70 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR)			ASTM D1693
10% Igepal, F0	> 504 hr	> 504 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength	2300 psi	15.9 MPa	ASTM D638
Tensile Elongation (Break)	700 %	700 %	ASTM D638
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Brittleness Temperature	< -148 °F	< -100 °C	ASTM D746
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	> 1.0E+16 ohms·cm	> 1.0E+16 ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
0.125 in (3.18 mm), Method A (Short-Time)	500 V/mil	20 kV/mm	
Dielectric Constant (1 MHz)	2.29	2.29	ASTM D1531
Dissipation Factor (1 MHz)	7.0E-5	7.0E-5	ASTM D1531
Extrusion	Nominal Value (English)	Nominal Value (SI)	
Melt Temperature	401 to 428 °F	205 to 220 °C	

Extrusion Notes

Melt extrusion temperatures in the range of 401 to 428°F (205 to 220°C) are recommended. However, specific recommendations for processing conditions can be determined only when the applications and type of processing equipment are known. Please contact your local Dow Wire and Cable sales representative for such particulars.

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

