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/cm³	0.921	g/cm³	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.