

# DOW™ Electrical & Telecommunications

## DFDA-7530 NT

Colorable Linear Low Density Polyethylene Compound for Cable Jacketing

The Dow Chemical Company

### Message:

#### Insulating Resin

Dow AXELERON™GP A- 7530 NT is supplied in the form of pellets. It is a linear low density polyethylene (LLDPE) resin prepared by Dow's UNIPOL PE process. It has excellent electrical properties and can be used as an insulating material for solid cables.

#### Specifications

Dow AXELERON™GP A- 7530 NT meets the following specifications:

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

General Information			
Uses	Low voltage insulation		
	Cable sheath		
	Cable sheath		
	Wire and cable applications		
	Communication wire sheath		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4, Grade E4		
	ASTM D 1248, I, Class A, Cat. 4, Grade E5		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, F0)	> 504	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	15.9	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -100	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup> (3.18 mm)	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.29		ASTM D1531
Dissipation Factor (1 MHz)	7.0E-5		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	205 - 220	°C	

#### Extrusion instructions

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.

#### NOTE

1. Method A (short time)

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#### Recommended distributors for this material

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