

DOW™ Electrical & Telecommunications

DFDA-1254 NT

Low Density Polyethylene Insulation Compound

The Dow Chemical Company

Message:

DFDA-1254 NT is a low density polyethylene insulating resin used to prepare applications that require a complete set of strict electrical properties. DFDA-1254 NT can be used as part of the resin for air injection processing to make foamed insulation materials for coaxial cables.

Specifications

DFDA-1254 NT meets the following specifications:

ASTM D 1248 Type 1, Class A, Category 3

General Information			
Uses	Coaxial Cable Insulation		
	Wire and cable applications		
	Communication wire insulation material		
	Communication Equipment		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 3		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	9.65	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+17	ohms·cm	ASTM D257
Dielectric Strength ¹ (3.18 mm)	43	kV/mm	ASTM D149
Dissipation Factor			ASTM D1531
1 MHz	1.0E-4		ASTM D1531
2.47 GHz	3.0E-4		ASTM D1531
Dielectric Constant			ASTM D1531
1 MHz	2.29		ASTM D1531
2.47 GHz	2.27		ASTM D1531
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 200	°C	
Extrusion instructions			

DFDA-1254 NT provides excellent surface finish and outstanding output rates over a broad range of conditions. For optimum results, use melt extrusion temperatures in the suggested range of 338 to 392°F (170-200°C). However, specific recommendations for processing conditions can be determined only when the application and type of processing equipment are known. Please contact your local Dow Chemical Wire and Cable Sales Representative for such particulars.

NOTE

1. Method A (short time)

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