



Technical Data Sheet

DOW™ Wire & Cable DFDA-1216 NT

Low Density Polyethylene

Overview

DOW™ Wire & Cable DFDA-1216 NT is a natural high molecular weight, low density polyethylene. DOW™ Wire & Cable DFDA-1216 NT has been designed for use as a crosslinkable homopolymer for use with organic peroxides. The molecular characteristics of the product provide excellent extrusion processing, high efficiency of crosslinking, and excellent mechanical properties.

Sustainability Attribute:



Typical Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.925	g/cm ³	0.925	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.4	g/10 min	2.4	g/10 min	ASTM D1238
Electrical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	660	V/mil	26	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.40		2.40		ASTM D1531
Dissipation Factor (60 Hz)	3.0E-4		3.0E-4		ASTM D1531
Extrusion	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Melt Temperature	248 to 266	°F	120 to 130	°C	

Extrusion Notes

DOW™ Wire & Cable DFDA-1216 NT provides an 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 248 to 266°F (120 to 130°C) when processed with organic peroxides. However, specific recommendations for processing conditions can be determined only when the application and type of processing equipment are known.

1. ASTM: American Society for Testing and Materials

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

