DOW™ Electrical & Telecommunications

DGDA-1310 NT

Colorable High Density Polyethylene Compound for Cable Jacketing

The Dow Chemical Company

Message:

Dow Electrical and Telecommunications DGDA-1310 NT High Density Polyethylene Resin is a high performance resin with an outstanding balance of processability and toughness. Dow Electrical and Telecommunications DGDA-1310 NT is designed for use in wire and cable extrusion for Monosil process and both power and telecommunication jacketing. DGDA-1310 NT also has excellent electrical properties and superior environmental stress crack resistance.
Specifications
Dow Electrical and Telecommunications DGDA-1310 NT meets the following specification:
ASTM D-1248 Type III, Class A, Category 5, Grade E9

General Information			
Uses	Industrial Cable Jacketing Low voltage insulation Cable sheath Wire and cable applications		
Agency Ratings	ASTM D 1248, III, Class A, Cat. 5, Grade E9		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.954	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.28	g/10 min	ASTM D1238
190°C/21.6 kg	27	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance [1] (50°C, 100% Igepal, F50)	> 1000	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	22.8	MPa	ASTM D638
Tensile Elongation [3] (Break)	> 750	%	ASTM D638
Flexural Modulus - 2% Secant [4]	1000	MPa	ASTM D790B
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature [5]	< -60.0	°C	ASTM D746
Electrical	**Nominal Value**		**Test Method**
Dielectric Constant (1 MHz)	2.34		ASTM D1531
Dissipation Factor (1 MHz)	1.0E-4		ASTM D1531
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	232 - 249	°C	
Extrusion instructions			

Dow Electrical and Telecommunications DGDA-1310 NT provides excellent surface finish at high coating speeds. For optimum results, use melt extrusion temperatures in the suggested rang of 450 to 480°F (230 to 250°C). However, specific recommendations for processing conditions can be determined only when the applications and type of processing equipment are known.

NOTE	
1.	Plaque molded and tested in accordance with ASTM D4976.
2.	Plaque molded and tested in accordance with ASTM D4976.
3.	Plaque molded and tested in accordance with ASTM D4976.
4.	Plaque molded and tested in accordance with ASTM D4976.
5.	Plaque molded and tested in accordance with ASTM D4976.

Recommended distributors for this material

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