DOW™ Electrical & Telecommunications

DFDA-1375 RD

Cable Jacketing Compound for Cable Identification

The Dow Chemical Company

Message:

DFDA-1375 RD is a linear low density polyethylene cable sheath material, which is supplied in the form of pellets. This product is specially used for processing identifiable power cables. When the thickness is 10 mils (0.25mm), its opacity is higher than that of DFDA-1374 RD. The product has an organic pigment and filler system, which makes it have excellent color retention in acid, alkali and water. This product is compatible with LLDPE sheath and is recommended to be used as a strip with DFDG-6059 BK.
Specifications
DFDA-1375 RD meets the following raw material specifications:
ASTM D 1248 Type 1, Class B, Category 4, Grades J1 and J3

General Information			
Uses	Cable sheath Wire and cable applications		
Forms	Particle		
Processing Method	Profile extrusion molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.925	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (20% Igepal, F0)	> 100	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	16.5	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Aging	**Nominal Value**	**Unit**	**Test Method**
Tensile strength retention rate [1]	100	%	ASTM D638
Elongation retention rate [2]	100	%	ASTM D638
Color Retention [3]			Internal method
immersion in 2.5% NaOH @ 23 & 60°C : 254.0 µm	PASS		Internal method
immersion in 5% HCl @ 23 & 60°C : 254.0 µm	PASS		Internal method
immersion in Saturated Aqueous H2S @ 23°C : 254.0 µm	PASS		Internal method
immersion in Tap Water @ 23°C & 60°C : 254.0 µm	PASS		Internal method
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature [4]	-76.0	°C	ASTM D746
Extrusion	**Nominal Value**	**Unit**	

Melt Temperature	218 - 246	°C

Extrusion instructions
DFDA-1375 RD provides excellent surface finish and outstanding output rates over a broad range of conditions. The optimum results are obtained by use of melt extrusion temperatures in the suggested range 218-246°C (425-475°F). However, specific recommendations for processing is best determined when the nature of the application and type of processing equipment are known. The local Dow Wire & Cable sales representative can be contacted for such applications.

NOTE	
1.	1000 hours
2.	1000 hours
3.	No color change after 32 weeks
4.	F50

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

Email: sales@su-jiao.com

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