DOW™ Electrical & Telecommunications

HFDG-4201 NT

Crosslinkable Power Cable Insulation Compound

The Dow Chemical Company

Message:

HFDG-4201 is a low-density, crosslinkable, unfilled polyethylene material used for power cables of 10KV or less.
Specifications
When adopting the correct commercial manufacturing specifications, cables using HFDG-4201 as insulating materials should be able to meet the following latest versions of industry cable specifications:
ICEA: S-66-524/NEMA WC7
IEC: 60502
GB: 12706

General Information			
Uses	Underground cable Wire and cable applications Insulating material Medium voltage insulation		
Agency Ratings	ICEA S-66-524 IEC 60502 NEMA WC-7		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.920	g/cm^3	ASTM D792
The degree of cross-binding-Extractables		%	ASTM D2765A
Hot Creep		%	ICEA T-28-562
Thermoset		%	ICEA T-28-562
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	19.3	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
3.18 mm [1]	26	kV/mm	ASTM D149
3.18 mm [2]	23	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.30		ASTM D150
Dissipation Factor (60 Hz)	5.0E-4		ASTM D150
Additional Information			

交叉结合的程度,萃取物,ASTM D 2765A:<20%热蠕变/热固性,ICEA T-28-562:<100% / <10%对于所有名义值,固化时间在 175°C 下为 15 分钟		
Extrusion	Nominal Value	Unit
Melt Temperature	116 - 138	°C

Extrusion instructions
HFDG-4201 provides excellent surface finish and outstanding output rates over a broad range of conditions. For optimum results, melt extrusion temperatures in the range of 240 to 280°F (116-138°C) are recommended, although higher melt temperatures are possible on certain equipment with due care. Specific recommendations for processing conditions can be determined for the application and type of processing equipment in use.

NOTE	
1.	Method A (short time)
2.	Method B (step by step)

Recommended distributors for this material

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