

DOW™ Electrical & Telecommunications

HFDA-9217 BK

Black Crosslinkable Power Cable Insulation Compound

The Dow Chemical Company

Message:

HFDA-9217 Black, with a density of 0.92, is a low-density, crosslinkable, black colored polyethylene compound with 0.5% carbon black designed for area power distribution wires covering up to 35 kV. It has the following important advantages:

Good thermal stability and weather resistivity

Excellent tracking resistance

High curing speed

General Information			
Uses	Track Resistant Insulation		
	Wire and cable applications		
	Insulating material		
	Medium voltage insulation		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	> 2000	hr	ASTM D1693
The degree of cross-binding-Extract	18.0		ASTM D2765A
Tensile strength retention rate ¹ (150°C)	> 85	%	ASTM D638
Elongation retention rate ² (150°C)	> 85	%	ASTM D638
Thermosetting-Cracking resistance	80.0		IEC 60502
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	47		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	25.0	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature ³	-76.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+17	ohms·cm	ASTM D257
Dielectric Constant (1 MHz)	2.32		ASTM D1531
Dissipation Factor (1 MHz)	3.0E-4		ASTM D1531
Additional Information			
这些是代表对模塑应力释放平板测试的名义属性值.固化时间在 175°C 下为 15 分钟.			
Extrusion	Nominal Value	Unit	

Melt Temperature	116 - 138	°C
Extrusion instructions		
加工技巧HFDA-9217 Black 在各种条件下提供出色的表面光洁度和卓越的输出率.建议挤塑机桶的温度设置为 90 到 115°C,十字头的温度为 110 到 120°C,并且模具温度为 120 到 130°C.为实现最佳效果,建议调节挤出加工条件以实现 116 到 138°C 的熔体挤出温度范围,尽管在某些设备上可实现更高的熔体温度.通常建议使用 60-40-20 网筛组.但是,只有已知应用方式和加工设备的类型时,才能给出加工条件的具体建议.		
NOTE		
1.	168 hours at 150°C	
2.	168 hours at 150°C	
3.	F50	
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