

Dow ENDURANCE™ HFDK-9253

Low Sag Extra Clean Compound for Medium Voltage Power Cable Insulation

The Dow Chemical Company

Message:

DOW ENDURANCE™ HFDK-9253 is a low density, low sag, cross-linkable polyethylene designed for power cable insulation in medium and high voltage applications, which meets the requirements of IEC 60502. It has the following important advantages.

1. Excellent thermal stability
2. Good extrusion property
3. Good hot set property
4. Extremely low contamination level

General Information			
Agency Ratings	IEC 60502		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density (Base Resin)	0.918 - 0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Humidity-K-F Method		ppm	DIN 53715
Thermoset ¹			IEC 60811-2-1
Elongation Under Load : 200°C		%	IEC 60811-2-1
Permanent Deformation : 200°C		%	IEC 60811-2-1
MDR - max torque (180°C)	3.00	dNm	ISO 6502
Methanol Wash			Internal method
Insoluble Part		ppm	Internal method
Soluble Part		ppm	Internal method
Scorch Time - TS1 (140°C)	45.0	min	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	20.0	MPa	IEC 60811-1-1
Tensile Elongation (Break)	550	%	IEC 60811-1-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (150°C, 240 hr)	< 20	%	IEC 60811-1-1
Change in Ultimate Elongation (150°C, 240 hr)	< 20	%	IEC 60811-1-1
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms · cm	IEC 60093
Dielectric Strength	> 35	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.30		IEC 60250
Dissipation Factor (50 Hz)	< 4.0E-4		IEC 60250
Extrusion instructions			

加工建议以下所建议的是典型的加工条件,具体情况要取决于机器的设计(包括螺杆和机头),筛网的目数,电缆的尺寸等因素.挤出机螺杆直径: φ150 mmL/D:
24筛网目数: 40/80/150/350/150/80/40 (取决于电压等级)温度设定(摄氏度):C1
C2
C3
C4
C5
C6
连接
机头
螺杆冷却*100
120
120
115
115
115
120
120
70* 部分冷却(仅限加料段)+ 如果不具备螺杆冷却,则建议将C1的温度设定在70摄氏度.+ 如果螺杆全段均有螺杆冷却,则建议将螺杆冷却温度设定在100摄氏度,将C1的设定在70摄氏度.所建议的熔融温度在120至130摄氏度之间.如果超过了130摄氏度,则建议降低C2至C6的设定温度.开车设定值

NOTE	
1.	0.2 MPa

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