

HANWHA CLNA-8141EHV

Low Density Polyethylene

Hanwha Chemical

Message:

Hanwha Wire & Cable Compound CLNA-8141EHV is a low density, crosslinkable polyethylene compound developed especially for the insulation of triple extruded XLPE power cables which employ high electrical stresses. It has an extremely low level of contamination and proper balance of non-staining antioxidant and peroxide to ensure thermal stability and optimum cure levels.

Applications:

CLNA-8141EHV is to be used as a crosslinked extra high voltage power cable insulation, i.e. above 161kV or for corresponding stresses (average working stress (based on U₀) < 12 kV/mm).

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Crosslinkable		
	Good Thermal Stability		
	Low Density		
Uses	High Voltage Insulation		
	Wire & Cable Applications		
Agency Ratings	IEC 60840		
	IEC 62067		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ISO 1872
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Moisture Content	< 200	ppm	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	18.0	MPa	ISO 527-2
Tensile Strain (Break)	550	%	ISO 527-2
Aging	Nominal Value	Unit	
Oven Aging (136°C)	7.0	day	
Retention of Tensile Elongation - 7 days (136°C)	> 95	%	
Retention of Tensile Strength - 7 days (136°C)	> 95	%	
Hot Set ¹			IEC 60811-2-1
Test - Elongation after Unload : 200°C	< 5.0	%	
Test - Elongation under Load : 200°C	< 100	%	

Cure Time			Internal Method
Tc90 : 180°C	< 5.0	min	
Ts1 : 180°C	> 1.0	min	
Methanol Wash	< 1000	ppm	Internal Method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength	40	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	2.30		IEC 60250
Dissipation Factor (1 MHz)	4.0E-4		IEC 60250
Extrusion	Nominal Value	Unit	
Melt Temperature	115 to 130	°C	
NOTE			
1.	0.2 MPa		

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