

# HANWHA CLNA-820

Low Density Polyethylene

Hanwha Chemical

Message:

Hanwha CLNA-820 is a high molecular weight, low density polyethylene(LDPE). It contains a controlled amount of antioxidant and has good mechanical and excellent electrical properties. It can be used for primary dielectric insulation of telephone, coaxial, control, power and other cables.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Electrical Properties		
	Good Surface Finish		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
Uses	Insulation		
	Wire & Cable Applications		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 5, Grade E4		
	ASTM D 1248, I, Class A, Cat. 5, Grade E5		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.23	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	24.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 1 sec)	52		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	16.7	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength in Air (100°C, 48 hr)	< -15	%	ASTM D573
Change in Ultimate Elongation in Air (100°C, 48 hr)	< -15	%	ASTM D573
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	> 22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.28		ASTM D150
Dissipation Factor (1 MHz)	< 4.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 220	°C	

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#### Recommended distributors for this material

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