HANWHA CLNA-8400

Linear Low Density Polyethylene

Hanwha Chemical

Message:

Hanwha CLNA-8400 is a linear low density polyethylene (LLDPE) produced by the UNIPOL process. It's molecular weight distribution is so broad that it offers an excellent processability and scorch stability. It can be used as base resin of silane-crosslinked low voltage cable insulation, high speed telephone cable insulation and high frequency coaxial inner skin. It combines excellent electrical properties with outstanding stress crack resistance.
Applications:
CLNA-8400 can be used as base resin of silane-crosslinked low voltage cable insulation, high speed telephone cable insulation and high frequency coaxial inner skin.

General Information			
Features	Crosslinkable Good Electrical Properties Good Processability Good Surface Finish High ESCR (Stress Crack Resist.) Wide Molecular Weight Distribution		
Uses	Coaxial Cable Insulation Low Voltage Insulation Telephone Insulation Wire & Cable Applications		
Agency Ratings	ASTM D 1248, I, Class A, Cat. 4, Grade E4 ASTM D 1248, I, Class A, Cat. 4, Grade E5		
Forms	Pellets		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.920	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 2000	hr	ASTM D1693
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, 1 sec)	53		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	17.7	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Aging	**Nominal Value**	**Unit**	
Retention of Tensile Elongation - 7 days (135°C)	> 90	%	

Retention of Tensile Strength - 7 days (135°C)	> 90	%	
Hot Elongation [1]	< 90	%	IEC 60502
Set - Permanent [2]	< 4.0	%	IEC 60502
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	> 20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	< 2.30		ASTM D150
Dissipation Factor (1 MHz)	< 2.0E-4		ASTM D150
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	160 to 220	°C	
NOTE			
1.	Silane 0.8 phr		
2.	Silane 0.8 phr		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China