HANWHA CHNA-8380L

High Density (HMW) Polyethylene

Hanwha Chemical

Message:

Hanwha CHNB-8380L is a high molecular weight, high density polyethylene(HDPE) insulation compound specially formulated to provide an excellent oxidative stability, physical/electrical properties. It provides superior long term aging performance especially in jelly-filled cable applications. It meets Telcordia(Bellcore) aging test requirements, as well as all major international aging test specifications for both solid and foam/skin insulation. It can be used for the full range of telephone cable insulation including air-core and jelly-filled cable.

General Information				
Features	Good Electrical Properties			
	Good Processability			
	High Density			
	High ESCR (Stress Crack Resist.)			
	High Molecular Weight			
Uses	Communication Wire Insulation			
	Wire & Cable Applications			
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4, Grade E8			
	ASTM D 1248, III, Class A, Cat. 4, Grade E9			
	BS 6234 Type H03			
	IEC 60708			
	NF C 32-060			
Forms	Pellets			
Processing Method	Extrusion			
	Wire & Cable Extrusion			
Physical	Nominal Value	Unit	Test Method	
Density	0.945	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR) (190°C/2.16	0.70	- (10		
	0.70	g/ iu min	ASTM D1238	
(50°C, 10% Igepal, F0)	> 1000	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	23.5	MPa	ASTM D638	
Tensile Elongation (Break)	550	%	ASTM D638	
Aging	Nominal Value	Unit	Test Method	
Oven Aging (100°C)	2.0	day		

Retention of Tensile Elongation - 2 days (100°C)	> 90	%	ASTM D638
Retention of Tensile Strength - 2 days (100°C)	> 90	%	ASTM D638
Oxidation Induction Time - AI (200°C)	> 200	min	ASTM D3895
Thermal Stress Crack Resistance	> 96	hr	ASTM D2951
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 Constant (1 MHz)	< 2.30		ASTM D150
Dissipation Factor (1 MHz)	< 1.0E-4		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	240 to 280	°C	

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