HANWHA CHYA-870F

High Density Polyethylene

Hanwha Chemical

Message:

Hanwha CHYA-870F is a high density polyethylene(HDPE) cellular compound designed for Foam/Skin telephone cable and other cellular insulation applications. It contains controlled amount of chemical blowing agent that gives up to 50% cellular expansion through temperature controlled extrusion. It provides excellent processability and electrical/physical properties. It can be used for foam-skin telephone singles insulation including air-core and jelly-filled.

General Information	
Features	High ESCR (Stress Cracking Resistance) Workability, good Good electrical performance
Uses	Wire and cable applications Communication wire insulation material
Agency Ratings	ASTM D 1248, III, Class A, Cat. 4 ICEA S-84-608
Forms	Particle
Processing Method	Wire & Cable Extrusion Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 1000	hr	ASTM D1693
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	22.6	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Aging	**Nominal Value**	**Unit**	**Test Method**
Oven Aging (100°C)	2.0	day	
Tensile strength retention-2 days (100°C)	> 90	%	ASTM D638
Elongation retention rate-2 days (100°C)	> 90	%	ASTM D638
Thermal Stress Crack Resistance	> 96	hr	ASTM D2951
Oxygen sensing time-AI (200°C)	> 200	min	ASTM D3895
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)	2.32		ASTM D150
Dissipation Factor (1 MHz)	6.0E-4		ASTM D150

Extrusion	Nominal Value	Unit
Melt Temperature	150 - 200	°C

Extrusion instructions

Line Speed : 2,500 m/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

Email: sales@su-jiao.com

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