

HANWHA 8600H

High Density Polyethylene
Hanwha Chemical

Message:

CHNA-8600H is a high density polyethylene(HDPE) compound designed for the insulation of coaxial cable and radio frequency(RF) communication cables using a gas injection foaming process. It has excellent electrical properties and provides low attenuation at high frequency. CHNA-8600H is commonly used by blending with CLNA-8600L prior to extrusion. To obtain optimal cellular structure, a small amount of nucleating agent is recommended.

Applications:

8600H&L can be used coaxial cable and radio frequency(RF) communication cables using a gas injection foaming process.

General Information			
Features	Foamable		
	Good Electrical Properties		
	High Density		
Uses	Blending		
	Communication Wire Insulation		
	Insulation		
	Wire & Cable Applications		
Agency Ratings	ASTM D 1248, IV, Class A, Cat. 3		
Forms	Pellets		
Processing Method	Extrusion		
	Foam Processing		
	Gas-Assisted Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.962	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	25.5	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
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)	2.35		ASTM D150
Dissipation Factor (1 MHz)	9.0E-5		ASTM D150
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 200	°C	

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