EU4400

High-density polyethylene (HDPE)

Description

EU4400 is a high-density polyethylene resin produced by Univation(Gas) Process, suitable for communication cable insulation. It provides high mechanical properties, environmental and thermal stress cracking resistance. In addition, EU4400 is designed for high-speed wire insulating extrusion process.

Characteristics

- Excellent processability
- Excellent heat-resistant stability
- High ESCR

Applications

- Solid insulation of communication wire
- Network & industrial ethernet data cable

Properties

Properties		Test Method		Values	Unit
Physical	Melt Flow Index (190℃, 2.16㎏)	ASTM	D1238	0.75	g/10min
	Density	ASTM	D1505	0.945	g/cm^3
Mechanical	Tensile Stress (Yield)	ASTM	D638	240	kgf/cm^2
	Tensile Strain (Break)	ASTM	D638	> 500	%
	ESCR	ASTM	D1693	> 1,000	F50hr
Thermal	Oxidative Induction Time (200℃)	ASTM	D3895	> 50	min
Electrical	Dielectric Constant	ASTM	D150	< 2.3	-
	Dissipation Factor	ASTM	D150	0.0001	-
	Volume Resistivity	ASTM	D257	> 1 X 10^{16}	Ω·cm
	Dielectric Strength	ASTM	D149	> 20	kV/mm

• NOTE : these are not to be construed as specifications

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