PU4600

High-density polyethylene (HDPE)

Description

PU4600 is a high-density polyethylene resin produced by Univation(Gas) Process, suitable for Drip Irrigation Pipe which has high Melt-Strength and ESCR having excellent processability.

Characteristics

- High Melt-Strength
- Good processability, Good mechanical properties
- High ESCR

Applications

- Drip Irrigation Pipe
- Geo Sheet

Properties

	Properties	Test Method		Values	Nominal
Physical	Melt Flow Index (190°C, 2.16kg)	ASTM	D1238	0.19	g/10min
	Melt Flow Index (190°C, 21.6kg)	ASTM	D1238	20.0	g/10min
	Density	ASTM	D1505	0.939	g/cm^3
Mechanical	Tensile Stress (Yield)	ASTM	D638	190	kgf/cm^2
	Tensile Stress (Break)	ASTM	D638	300	kgf/cm^2
	Tensile Strain (Break)	ASTM	D638	> 700	%
	Flexural Modulus	ASTM	D790	6,500	kgf/cm^2
	Notched IZOD Impact Strength (23℃)	ASTM	D256	NB	kgf·cm/cm
	ESCR	ASTM	D1693	> 1,000	F0hr
Thermal	Vicat Softening Temperature	ASTM	D1525	115	℃
	Melting Temperature	ASTM	D3418	125	℃
	Oxidation Induction Time (200℃)	ISO/TR	10837	> 30	min

• NOTE : these are not to be construed as specifications

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