M7100
High-density polyethylene (HDPE)

Description
M7100 is a high-density polyethylene resin produced by Mitsui(Slurry) Process, suitable for Pipe Extrusion which has high hydrostatic pressure resistance and ESCR having excellent formability.

Characteristics
- For Pipe Extrusion Molding
- ISO PE100 (MRS 10) Class
- Good processability, Good mechanical properties

Applications
- Water supply pipes, Sewerage pipe, Gas pipe, etc.

Properties

	Properties	Test Method		Values	Nominal
Physical	Melt Flow Index (190℃, 2.16/5㎏)	ASTM	D1238	0.06/0.25	g/10min
	Density	ASTM	D1505	0.952	g/cm^3
Mechanical	Tensile Stress (Yield)	ASTM	D638	230	kgf/cm^2
	Tensile Strain (Break)	ASTM	D638	> 700	%
	Flexural Modulus	ASTM	D790	8,500	kgf/cm^2
	Notched IZOD Impact Strength (23℃)	ASTM	D256	NB	kgf·cm/cm
	Rockwell Hardness	ASTM	D785	57	R
	ESCR	ASTM	D1693	> 1,000	F50hr
Thermal	VICAT Softening Point	ASTM	D1525	125	℃
	Oxidative Induction Time (200℃)	ISO/TR	10837	> 30	min
Hydrostatic pressure	12.4MPa (20℃)	ISO	1167	> 100	hr
	5.4MPa (80℃)	ISO	1167	> 165	hr
	5.0MPa (80℃)	ISO	1167	> 1,000	hr

• NOTE : these are not to be construed as specifications

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