

## HIVOREX M7100

## High Density Polyethylene

### General Information

#### Description

- ◆ M7100 is a HDPE resin suitable for pipe extrusion molding.
- ◆ ISO PE100 (MRS 10) Class
- ◆ Good Processability, Mechanical Properties

#### Applications

- ◆ Water supply pipe, Sewerage pipe, Gas pipe etc.

### Properties<sup>1</sup>

Physical	Test Method	Nominal Values			
Melt Flow Index (190°C, 2.16kg/5kg)	ASTM D 1238	0.06/0.25	g/10min		
Density	ASTM D 1505	0.952	g/cm <sup>3</sup>		
<b>Mechanical</b>					
Tensile Stress (Yield)	ASTM D 638	230	kgf/cm <sup>2</sup>	22.6	MPa
Tensile Strain (Break)	ASTM D 638	>700	%	>700	%
Flexural Modulus	ASTM D 790	8,500	kgf/cm <sup>2</sup>	834	MPa
<b>Impact</b>					
Notched IZOD Impact Strength (23°C)	ASTM D 256	NB	kgf·cm/cm	NB	J/m
<b>Thermal</b>					
VICAT Softening Point	ASTM D 1525	125	°C		
Oxidative Induction Time (200°C)	ISO/TR 10837	>30	Min		
<b>Additional</b>					
ROCKWELL Hardness	ASTM D 785	57	R scale		
ESCR	ASTM D 1693	>1,000	F <sub>50</sub> hr		
Hydrostatic Pressure Test (12.4MPa, 20°C)	ISO 1167 (>100)	>150	hr		
	(5.5MPa, 80°C)	(>165)	>1,000	hr	
	(5.0MPa, 80°C)	(>1,000)	>5,000	hr	

#### NOTE

ISO 9001, 14001, /TS 16949

<sup>1</sup> Physical Properties : These are not to be construed as specifications.