

## M7100

## High Density Polyethylene

### General Information

#### Description

- ◆ For Pipe Extrusion Molding
- ◆ ISO PE100 (MRS 10) Class
- ◆ Good processability, Good 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 D1238	0.06/0.25 g/10min	
Density	ASTM D1505	0.952 g/cm <sup>3</sup>	
<b>Mechanical</b>			
Tensile Stress (Yield)	ASTM D638	230 kgf/cm <sup>2</sup>	22.6 MPa
Tensile Strain (Break)	ASTM D638	≥700 %	
Flexural Modulus	ASTM D790	8,500 kgf/cm <sup>2</sup>	834 MPa
<b>Impact</b>			
Notched IZOD Impact Strength (23°C)	ASTM D256	NB kgf·cm/cm	
<b>Thermal</b>			
VICAT Softening Point	ASTM D1525	125 °C	
Oxidative Induction Time (200°C)	ISO/TR 10837	>30 min	
<b>Additional Properties</b>			
Rockwell Hardness	ASTM D785	57 R	
ESCR	ASTM D1693	>1,000 F <sub>50</sub> hr	
<b>Hydrostatic Pressure Test</b>			
12.4MPa (20°C)	(>100)	>100 hr	
5.4MPa (80°C)	(>165)	>165 hr	
5.0MPa (80°C)	(>1,000)	>1000 hr	

### NOTE

ISO 9001, 14001, /TS 16949

<sup>1</sup> Properties: these are not to be construed as specifications