

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 ¹		
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 ³
Mechanical		
Tensile Stress (Yield)	ASTM D638	230 kgf/cm ² 22.6 MPa
Tensile Strain (Break)	ASTM D638	≥700 %
Flexural Modulus	ASTM D790	8,500 kgf/cm ² 834 MPa
Impact		
Notched IZOD Impact Strength (23°C)	ASTM D256	NB kgf·cm/cm
Thermal		
VICAT Softening Point	ASTM D1525	125 °C
Oxidative Induction Time (200°C)	ISO/TR 10837	>30 min
Additional Properties		
Rockwell Hardness	ASTM D785	57 R
ESCR	ASTM D1693	>1,000 F ₅₀ hr
Hydrostatic Pressure Test	ISO 1167	
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

¹ Properties: these are not to be construed as specifications