

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.

Properties¹

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/cm³	
Mechanical			
Tensile Stress (Yield)	ASTM D638	230 kgf/cm²	22.6 MPa
Tensile Strain (Break)	ASTM D638	≥ 700 %	
Flexural Modulus	ASTM D790	8,500 kgf/cm²	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