

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.

Properties¹

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 ³		
Mechanical					
Tensile Stress (Yield)	ASTM D 638	230	kgf/cm ²	22.6	MPa
Tensile Strain (Break)	ASTM D 638	>700	%	>700	%
Flexural Modulus	ASTM D 790	8,500	kgf/cm ²	834	MPa
Impact					
Notched IZOD Impact Strength (23°C)	ASTM D 256	NB	kgf·cm/cm	NB	J/m
Thermal					
VICAT Softening Point	ASTM D 1525	125	°C		
Oxidative Induction Time (200°C)	ISO/TR 10837	>30	Min		
Additional					
ROCKWELL Hardness	ASTM D 785	57	R scale		
ESCR	ASTM D 1693	>1,000	F ₅₀ 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

¹ Physical Properties : These are not to be construed as specifications.