

HIVOREX M7100

High Density Polyethylene

DESCRIPTION

M7100 is a HDPE resin suitable for pipe extrusion molding. ISO PE100 (MRS 10) Class. Good processability and mechanical properties.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Melt Flow Index (190°C, 2.16 kg/5 kg)	0.06/0.25	g/10 min	ASTM D 1238
Density	0.952	g/cm ³	ASTM D 1505
Tensile Stress (Yield)	230 kgf/cm ² / 22.6 MPa	-	ASTM D 638
Tensile Strain (Break)	>700	%	ASTM D 638
Flexural Modulus	8,500 kgf/cm ² / 834 MPa	-	ASTM D 790
Notched IZOD Impact Strength (23°C)	NB kgf·cm/cm / NB J/m	-	ASTM D 256
VICAT Softening Point	125	°C	ASTM D 1525
Oxidative Induction Time (200°C)	>30	Min	ISO/TR 10837
ROCKWELL Hardness	57	R scale	ASTM D 785
ESCR	>1,000	F50 hr	ASTM D 1693
Hydrostatic Pressure Test (12.4 MPa, 20°C)	>150	hr	ISO 1167 (>100)
Hydrostatic Pressure Test (5.5 MPa, 80°C)	>1,000	hr	ISO 1167 (>165)
Hydrostatic Pressure Test (5.0 MPa, 80°C)	>5,000	hr	ISO 1167 (>1,000)

NOTES / TEST CONDITIONS

¹ Physical Properties: These are not to be construed as specifications. NOTE: ISO 9001, 14001, /TS 16949.

TYPICAL APPLICATIONS

Water supply pipe, sewerage pipe, gas pipe etc.