

DATASHEET

ASTM Property



Grade	M7100
Product	HDPE

General Information

Key Features

- For Pipe Extrusion Molding
- ISO PE100 (MRS 10) Class
- Good Processability, Good Mechanical Properties

Applications

Water supply pipe, Sewerage pipe, Gas pipe, etc.

Item	Measuring Method	Unit	Value
Physical			
Melt Flow Index (190°C, 2.16kg/5kg)	ASTM D1238	g/10min	0.06/0.25
Density	ASTM D1505	g/cm ³	0.952
Mechanical			
Tensile Stress (Yield)	ASTM D638	kgf/cm ²	230
Tensile Strain (Break)	ASTM D638	%	≥700
Flexural Modulus	ASTM D790	kgf/cm ²	8,500
Impact			
Izod Impact Strength(notched) (23°C)	ASTM D256	kgf·cm/cm	NB
Thermal			
VICAT Softening Temperature	ASTM D1525	°C	125
Oxidative Induction Time (200°C)	ISO/TR 10837	min	>30
Additional Properties			
Rockwell Hardness	ASTM D785	R	57
ESCR	ASTM D1693	F50hr	>1,000
Hydrostatic Pressure Test	ISO 1167		
12.4MPa (20°C)	(>100)	hr	>100
5.4MPa (80°C)	(>165)	hr	>165
5.0MPa (80°C)	(>1,000)	hr	>1,000

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

2. ISO 9001, 14001, /TS 16949

* The last update date : 2021/10/01