DATASHEET

ASTM Property



LOTTE CHEMICAL

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℃, 2.16kg/5kg)	ASTM D1238	g/10min	0.06/0.25
Density	ASTM D1505	g/㎤	0.952
	Mechanical		
Tensile Stress (Yield)	ASTM D638	kgf/㎠	230
Tensile Strain (Break)	ASTM D638	%	≥700
Flexural Modulus	ASTM D790	kgf/㎠	8,500
	Impact		
Izod Impact Strength(notched) (23℃)	ASTM D256	kgf·㎝/㎝	NB
	Thermal		
VICAT Softening Temperature	ASTM D1525	℃	125
Oxidative Induction Time (200℃)	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℃)	(>100)	hr	>100
5.4MPa (80℃)	(>165)	hr	>165
5.0MPa (80℃)	(>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

LIMICO