DATASHEET

ASTM Property

LOTTE CHEMICAL

Grade	FL7100
Product	HDPE

General Information

Key Features	- FL7100 is manufactured to be processed in conventional blown film equipment by CSTR Slurry process technology. - Due to the molecular composition of the Bi-modal structure, FL7100 offers both excellent processability and excellent mechanical properties.
Applications	- Shopping Bag, Garbage Bag - Industrial/ General Packing Film

Item	Measuring Method	Unit	Value
Physical			
Melt Flow Index	ASTM D1238	g/10min	0.045
Density	ASTM D1505	g/㎤	0.956
Mechanical			
Tensile Stress (Yield)	ASTM D638	kgf/㎠	250
Elongation (Break)	ASTM D638	%	≥500
Flexural Modulus	ASTM D790	kgf/㎠	10,000
Impact			
Izod Impact Strength(notched) (23℃)	ASTM D256	kgf·㎝/㎝	>30
Thermal			
VICAT Softening Temperature	ASTM D1525	℃	124
Film Properties[2]			
Tensile Stress (Break) MD	ASTM D882	kgf/㎠	670
TD	ASTM D882	kgf/㎠	630
Elongation (Break) MD	ASTM D882	%	330
TD	ASTM D882	%	500
Tear Resistance MD	ASTM D1004	kgf/cm	150
TD	ASTM D1004	kgf/cm	230

1. Physical Properties : these are not to be construed as specifications
2. Φ50mm Extruder, 20㎛ Thickness, BUR 4, FLH 10

* The last update date : 2021/10/01