

7000F

PRODUCT DESCRIPTION

000 F is a high density polyethylene resin; a product of bi-modal process from Mitsui Chemicals, Inc. of Japan

TYPICAL APPLICATION

Recommend film thickness at 10-25 micron

Shopping bag and T-shirt bag

High tensile strength with good dart impact strength

Garbage bag

Low gel content

Liner bag

Good moisture barrier

Enhanced ultra thin film

Food contact applicable

High stiffness

Wide service Temperature range, UV resistance

Properties	Value	Unit	Method
Melt Flow Rate	0.04	g/10 min	ASTM D 1238 @ 190 °C, 2.16 kg
Density	0.954	g/cm ³	ASTM D 1505
Melting Point	131	°C	ASTM D 2117
Vicat Softening Point	124	°C	ASTM D 1525
Brittleness Temperature	< -60	°C	ASTM D 746
ESCR	> 1000	hrs, F50	ASTM D 1693 @ 50 °C
Tensile Strength@ Yield	MD: -, TD: 250*	kg/cm ²	ASTM D 638 @ crosshead speed 50mm/min
Tensile Modulus, 2% Secant	MD: 620*, TD: 310*	kg/cm ²	ASTM D 638 @ crosshead speed 50mm/min
Elongation@Break	MD: 8200*, TD: 8000*	kg/cm ²	ASTM D 638 @ crosshead speed 50mm/min
Elmendorf Tear Strength	MD : 240*, TD : 450*	%	ASTM D 638 @ crosshead speed 50mm/min
Elmendorf Tear Strength	MD : 3*, TD : 80*	g	ASTM D 1922
Dart Impact Strength	139*	g	ASTM D 1709

(*) Properties obtained from film produced on a pilot line , 12 micron, BUR 5:1, MD = Machine Direction, TD = Transverse Direction Note : Conversion factor for changing unit from kg/cm² to MPa is divided by 10.2