

Mehr Petrochemical Company

HDPE 7000F

Film Grade

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

(*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

APPLICATION

recommend film thickness at 10-20 micron ————— shoeing 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
 good impact resistance and processability ————— wide service temperature range, UV resistance



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