Sümer Petrokimya

Ankara/Türkiye

Polymers | Chemical & Aromatics | Fuel & Feeds Stock

HDPE 7000 F

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/cm3
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/cm2
Tensile Strength at break	ASTM D 638 @crosshead speed 50 mm /min	MD:620*,TD:310*	kg/cm2
Tensile Modulus, 2% secant	ASTM D 638 @crosshead speed 50 mm /min	MD:8200*,TD:8000*	kg/cm2
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*	g

(*)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 — shooing 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