

Persian Gulf Petrochemical Industry Commercial Co.

Mehr Petrochemical Company



Polymers



Chemical & Aromatics



Fuel & Feeds Stock

# HDPE 7000 F

*Film Grade*

PROPERTIES	Test Method	Value	Value
<b>Resin Properties</b>			
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
<b>Film Properties</b>			
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 \_\_\_\_\_ 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