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MEHR PETROCHEMICAL COMPANY

HIGH DENSITY POLYETHYLENE HDPE 7000F

HDPE 7000F, a high-molecular-weight copolymer with butene-1, excels in producing thin films due to its exceptional strength. This grade is processed into films through the film blowing method, where molten polymer is extruded, inflated, cooled, and solidified into a sheet or tube.

Producer	Characteristic Properties	Applications
MEHR	High tensile strength with good dart impact strength • Low gel content • Good moisture barrier • Food contact applicable • Good impact resistance and processability	Shopping bag and T-shirt bag Garbage bag Liner bag

Typical Properties

Resin Properties	Unit	Typical	Test Method
Melt Flow Rate	g/10min	0.03-0.05	ASTM 1238
Density	g/cm ³	0.950-0.954	ASTM D 1505
Melting Point	°C	130 -140	ASTM D 2117
Vicat Softening Point	°C	124	ASTM D 1525
Brittleness Temperature	°C	< -60	ASTM D 746
ESCR	hrs, F50	> 1000	ASTM D 1693
Tensile Strength at Yield	Kg/cm ²	MD: 380*, TD: 250*	ASTM D 638
Tensile Strength at Break	Kg/cm ²	MD: 620*, TD: 310*	ASTM D 638
Tensile Modulus, 2% Secant	kg/cm ²	MD: 8200*, TD: 8000*	ASTM D 638
Elongation at Break	%	MD : 240*, TD : 450*	ASTM D 638
Elmendorf Tear Strength	g	MD : 3*, TD : 80*	ASTM D 1922
Dart Impact Strength	g	139*	ASTM D 1709
Gloss	GU	5.8	ASTM D 2457
Haze	%	85.5	ASTM D1003