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MEHR PETROCHEMICAL COMPANY

HIGH DENSITY POLYETHYLENE - HDPE 7000F (F7000)

High-density polyethylene film resin produced by a bi-modal process. Features reported in the source include high stiffness, low gel content, good moisture barrier and good impact resistance and processability.

FEATURES	Applications
High stiffness, good mechanical strength and processability, suitable for thin films and packaging bags.	Shopping and T-shirt bags; garbage bags; liner bags; enhanced ultra-thin film

Typical Properties

Resin Properties	Unit	Typical Value	Test Method
Melt flow rate (190 C / 2.16 kg)	g/10 min	0.04	ASTM D1238
Density	g/cm³	0.954	ASTM D1505
Melting point	°C	131	ASTM D2117
Vicat softening point	°C	124	ASTM D1525
Brittleness temperature	°C	< -60	ASTM D746
ESCR (50 C; F50)	h	> 1000	ASTM D1693
Tensile strength at yield (MD/TD)	kgf/cm2	- / 250	ASTM D638
Tensile strength at break (MD/TD)	kgf/cm2	620 / 310	ASTM D638
Tensile modulus, 2% secant (MD/TD)	kgf/cm2	8200 / 8000	ASTM D638
Elongation at break (MD/TD)	%	240 / 450	ASTM D638
Elmendorf tear strength (MD/TD)	g	3 / 80	ASTM D1922
Dart impact strength	g	139	ASTM D1709

Film data: 12-micron pilot-line film, BUR 5:1. MD = machine direction; TD = transverse direction.

Tensile test crosshead speed: 50 mm/min.

ESCR: compression-molded specimen, 25% Igepal. A dash means not reported

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