

HDPE**HDPE F 6095****HIGH DENSITY POLYETHYLENE (HDPE)**

F 6095 is a high molecular weight, high density polyethylene copolymer with broad molecular weight distribution. Films made from F 6095 exhibit high strength and high stiffness as well as excellent drawdown at high extrusion rate. Apart from film applications, F 6095 can also be used for blow molding and non-pressure pipes.

Typical Applications:

- Blown films: grocery bags, trash bags, heavy duty sacks, liners, lamination films, food packaging
- Blow molding: jerry cans, food containers, chemical containers
- Pipes: non-pressure pipes

Film Properties

Properties	Test Method	Typical Value	Unit
Film Thickness		12.7	µm
Tensile Yield Strength — MD	ASTM D882	38	MPa
Tensile Yield Strength — TD	ASTM D882	29	MPa
Tensile Strength at Break — MD	ASTM D882	57	MPa
Tensile Strength at Break — TD	ASTM D882	66	MPa
Elongation at Break — MD	ASTM D882	210	%
Elongation at Break — TD	ASTM D882	360	%
Dart Drop Impact	ASTM D1709A	130	g
Puncture Energy	Internal Method	0.45	J

Physical Properties

Properties	Test Method	Typical Value	Unit
Density	ASTM D792	0.952	g/cm ³
Melt Index (190°C/21.6kg)	ASTM D1238	10.5	g/10 min
Flexural Modulus, 2% Secant	ASTM D790	1,000	MPa
Vicat Softening Temperature	ASTM D1525	125	°C
Melting Temperature (DSC)	DSC Method	130	°C

Processing Guidelines

Typical fabrication conditions for blown film: 50 mm grooved-feed extruder with barrier screw, L/D ratio 21:1, die diameter 120 mm, die gap 1.4 mm, blow-up ratio 4:1, frost line height 1080 mm, melt temperature 216 °C, screw speed 97 rpm, output 54.4 kg/hr.

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests. Values based on the producer's preliminary product data sheet and subject to revision.