

Product Data Sheet

SUMITOMO POLYETHYLENE HDPE

F0554

High Density, Blown Film

Applications	For shopping and grocery bags, perforated rolls, trash bags, and industrial liners.
Characteristics	Bimodal blown film grade having high tensile and impact strength, good stiffness and barrier properties with a wide molecular weight distribution for easy processing. Performs well under heavy load conditions.
Typical Processing Conditions	Extrusion temperature : 180°C - 230°C Blow-up ratio : 3 - 5

Typical Properties

Physical		Value		Unit	Method
Melt Index	2.16kg	0.05		g/10min	ASTM D1238
	21.6kg	9.3		g/10min	ASTM D1238
Density		0.951		g/cm ³	ASTM D792-A
Thermal		Value		Unit	Method
Vicat Softening Temperature	10N	126		°C	ASTM D1525A
Film		Value		Unit	Method
		w/o stab ⁽¹⁾	w/ stab ⁽²⁾		
Tensile Strength at Yield	MD / TD	35 / 30	35 / 30	MPa	ASTM D882
Tensile Strength at Break	MD / TD	70 / 65	75 / 55	MPa	ASTM D882
Tensile Elongation at Break	MD / TD	560 / 550	520 / 560	%	ASTM D882
Tensile Modulus, 1% Secant	MD / TD	930 / 1030	990 / 1140	MPa	ASTM D882
Elmendorf Tear Strength	MD / TD	17 / 39	11 / 78	g	ASTM D1922
Dart Drop Impact		325	245	g	ASTM D1709

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications, actual test results may vary.

Test pieces preparation condition : as per ASTM D4976.

Blown film processing condition : extruder ø55mm, die ø120mm, die gap 1.35mm, temperature 200°C, output 50kg/hr, thickness 20µm.
neck height 840mm, (1) without stabilizer, (2) with stabilizer ø108mm at top of the blown bubble neck.