

SABIC SABIC® F00952

SABIC® HDPE F00952 resin is a high molecular weight High Density Polyethylene copolymer which has been designed specifically for blown film extrusion. It has broad molecular distribution and high density combine successfully to give excellent extrudability with high film strength and rigidity. The material contains anti oxidant. Application SABIC® HDPE F00952 resin is recommended for blown film extrusion. This product is suggested for the manufacture of high strength grocery sacks, shopping bags and high quality thin films for multi wall sack liners and replacement for thin paper products.

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D1505
Melt Flow	0.050 g/10 min @Load 2.16 kg, Temperature 190 °C	0.050 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	9.0 g/10 min @Load 21.6 kg, Temperature 190 °C	9.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Yield, TD	31.0 MPa	4500 psi	ASTM D882
Film Elongation at Break, MD	400 %	400 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Tensile Modulus	1.25 GPa	181 ksi	MD; ASTM D882
	1.50 GPa	218 ksi	TD; ASTM D882
Elmendorf Tear Strength, MD	12.0 g/micron	305 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	60.0 g/micron	1520 g/mil	ASTM D1922
Dart Drop Test	180 g	0.397 lb	F50; Properties are based on 15 µm film produced at 4 BUR using 100% F00952; ASTM D1709
Film Tensile Strength at Break, MD	60.0 MPa	8700 psi	Properties are based on 15 µm film produced at 4 BUR using 100% F00952; ASTM D882
Film Tensile Strength at Break, TD	56.0 MPa	8120 psi	ASTM D882
Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525