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SABIC SABIC® FJ00952

FJ00952 is TNPP additive free grade, high molecular weight High Density Polyethylene copolymer which has a broad molecular weight distribution. The design of the product, molecular architecture and density, gives it a unique combination of easy extrusion and high melt strength with strong physical properties which makes it suitable for producing thin films with excellent strength and rigidity.

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in³	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	ASTM D1238
	9.0 g/10 min @Load 21.6 kg, Temperature 190 °C	9.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	33.0 MPa	4790 psi	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D882
Film Tensile Strength at Yield, TD	31.0 MPa	4500 psi	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D882
Film Elongation at Break, MD	400 %	400 %	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D882
Film Elongation at Break, TD	550 %	550 %	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D882
Elmendorf Tear Strength MD	12 g	12 g	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D1525
Elmendorf Tear Strength TD	60 g	60 g	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D1525

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Dart Drop	180 g/micron	4570 g/mil	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; 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% FJ00952.; ASTM D882
Film Tensile Strength at Break, TD	56.0 MPa	8120 psi	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D882
1% Secant Modulus, MD	1250 MPa	181000 psi	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D882
1% Secant Modulus, TD	1500 MPa	218000 psi	Properties are based on 15 µm film produced at 4 BUR using 100% FJ00952.; ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525