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SABIC SABIC® 118NJ

SABIC® LLDPE 118NJ is a butene linear low density polyethyleneresin typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hot tack properties. 118NJ is TNPP free and it does not contain slip and antiblock additive.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ASTM D1505
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882
Film Elongation at Break, MD	750 %	750 %	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882
Film Elongation at Break, TD	800 %	800 %	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882
Puncture Energy	68.0 J	50.2 ft-lb	J/mm; Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; SABIC method

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Elmendorf Tear Strength MD	165 g	165 g	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D1922
Elmendorf Tear Strength TD	300 g	300 g	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D1922
Dart Drop	145 g/micron	3680 g/mil	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D1709
Film Tensile Strength at Break, MD	40.0 MPa	5800 psi	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882
1% Secant Modulus, MD	220 MPa	31900 psi	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882

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1% Secant Modulus, TD	260 MPa	37700 psi	Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	100 °C	212 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	10 % @Thickness 0.0300 mm	10 % @Thickness 0.00118 in	2.5 BUR using 100% 118NJ.; ASTM D1003
Gloss	60 %	60 %	60°; Properties have been measured by producing 30 µm film with 2.5 BUR using 100% 118NJ.; ASTM D2457