

SABIC SABIC[®] HP0322NN

HP0322NN is a Low Density Polyethylene grade suitable for producing heavy-duty films and does not contain slip, antiblock and antioxidant additives. It gives outstanding toughness and optical properties in the film.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D1505
Melt Flow	0.33 g/10 min @Load 2.16 kg, Temperature 190 °C	0.33 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	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	450 %	450 %	ASTM D882
Film Elongation at Break, TD	690 %	690 %	ASTM D882
Elmendorf Tear Strength, MD	8.00 g/micron	203 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	6.00 g/micron	152 g/mil	ASTM D1922
Dart Drop	4.00 g/micron	102 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	31.0 MPa	4500 psi	ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM D882
1% Secant Modulus, MD	190 MPa	27600 psi	ASTM D882
1% Secant Modulus, TD	210 MPa	30500 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 °C	203 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	11 % @Thickness 0.0500 mm	11 % @Thickness 0.00197 in	2.5 BUR using 100% HP0322NN.; ASTM D1003
Gloss	50 %	50 %	45°; ASTM D2457