

SABIC® HP2022NN

HP2022NN is a Low Density Polyethylene grade suitable for general-purpose packaging. They exhibit better draw down, good optical and mechanical properties. HP2022NN contains no slip, no antiblock and no antioxidant additives.

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in ³	ASTM D1505

Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 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	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	120 %	120 %	ASTM D882
Film Elongation at Break, TD	530 %	530 %	ASTM D882
Elmendorf Tear Strength, MD	18.0 g/micron	457 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	4.00 g/micron	102 g/mil	ASTM D1922
Dart Drop	2.00 g/micron	50.8 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	29.0 MPa	4210 psi	ASTM D882
Film Tensile Strength at Break, TD	15.0 MPa	2180 psi	ASTM D882
1% Secant Modulus, MD	180 MPa	26100 psi	ASTM D882
1% Secant Modulus, TD	230 MPa	33400 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	10 % @Thickness 0.0300 mm	10 % @Thickness 0.00118 in	2.5 BUR using 100% HP2022NN.; ASTM D1003
Gloss	55 %	55 %	45°; ASTM D2457