

SABIC® HP2027NN

HP2027NN is a Low Density Polyethylene grade with increase density. It typically exhibits better draw down ability with high output. Films typically have excellent optics and high rigidity. It contains no slip, no antiblock and no antioxidant additives.

Physical Properties	Metric	English	Comments
Density	0.927 g/cc	0.0335 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	18.0 MPa	2610 psi	ASTM D882
Film Elongation at Break, MD	326 %	326 %	ASTM D882
Film Elongation at Break, TD	522 %	522 %	ASTM D882
Elmendorf Tear Strength, MD	9.00 g/micron	229 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	14.0 g/micron	356 g/mil	ASTM D1922
Dart Drop	2.00 g/micron	50.8 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ASTM D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882
1% Secant Modulus, MD	260 MPa	37700 psi	ASTM D882
1% Secant Modulus, TD	290 MPa	42100 psi	ASTM D882
Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °F	ASTM D1525
Optical Properties	Metric	English	Comments
Haze	4.0 % @Thickness 0.0300 mm	4.0 % @Thickness 0.00118 in	2.5 BUR using 100% HP2027NN.; ASTM D1003
Gloss	72 %	72 %	45°; ASTM D2457