

SABIC® HP4027JN

HP4027JN 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. HP4027JN contains slip and antiblock additives.

Physical Properties	Metric	English	Comments
Density	0.927 g/cc	0.0335 lb/in ³	ASTM D1505
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 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	12.0 MPa	1740 psi	ASTM D882
Film Elongation at Break, MD	256 %	256 %	ASTM D882
Film Elongation at Break, TD	536 %	536 %	ASTM D882
Elmendorf Tear Strength, MD	10.0 g/micron	254 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	14.0 g/micron	356 g/mil	ASTM D1922
Dart Drop	3.00 g/micron	76.2 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	19.0 MPa	2760 psi	ASTM D882
Film Tensile Strength at Break, TD	19.0 MPa	2760 psi	ASTM D882
1% Secant Modulus, MD	270 MPa	39200 psi	ASTM D882
1% Secant Modulus, TD	266 MPa	38600 psi	ASTM D882

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

Optical Properties	Metric	English	Comments
Haze	5.0 % @Thickness 0.0300 mm	5.0 % @Thickness 0.00118 in	2.5 BUR using 100% HP4027JN.; ASTM D1003
Gloss	72 %	72 %	45°; ASTM D2457

Descriptive Properties	
Anti block agent	True
Slip agent	True