

SABIC® LDPE HP2022NN

LOW DENSITY POLYETHYLENE

DESCRIPTION

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.

TYPICAL APPLICATIONS

Thin shrink film, lamination film, produce bags, textile packaging, soft goods packaging, general-purpose bags with good optics and t-shirts carrier bags.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	2.0	g/10 min	ASTM D1238
MECHANICAL PROPERTIES			
Dart Impact Strength	2	g/μm	ASTM D1709
OPTICAL PROPERTIES			
Haze ⁽¹⁾	10	%	ASTM D1003
FILM PROPERTIES			
Tensile Properties			
stress at break, MD	29	MPa	ASTM D882
stress at break, TD	15	MPa	ASTM D882
strain at break, MD	120	%	ASTM D882
strain at break, TD	530	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	11	MPa	ASTM D882
1% secant modulus, MD	180	MPa	ASTM D882
1% secant modulus, TD	230	MPa	ASTM D882
Tear Resistance			
MD	18	g/μm	ASTM D1922
TD	4	g/μm	ASTM D1922
THERMAL PROPERTIES			
Vicat Softening Temperature	92	°C	ASTM D1525