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LLDPE 920NT

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® 920NT is an ethylene-butene copolymer designed for blown film application. Excellent mechanical strength, tear and puncture resistance. 920NT contains no slip and no antiblock.

TYPICAL APPLICATIONS

Agriculture film, heavy duty film, general purpose packaging film, stretch film, carrier bag, inner liner, refuse bag, produce bag, frozen bag, co-extrusion film/pouch, etc.

TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190°C and 2.16 kg	0.85	g/10 min	ASTM D1238
Density at 23°C	920	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
stress at yield, MD	10	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
stress at break, MD	34	MPa	ASTM D882
stress at break, TD	26	MPa	ASTM D882
elongation at break, MD	550	%	ASTM D882
elongation at break, TD	700	%	ASTM D882
OPTICAL PROPERTIES			
Gloss			
at 45°	60	-	ASTM D2457
Haze ⁽¹⁾	12	%	ASTM D1003
FILM PROPERTIES			
Dart Impact F50	118	g	ASTM D1709
Tear Resistance			
MD	35	g	ASTM D1922
TD	135	g	ASTM D1922
Puncture resistance	75	J/m	SABIC method

(1) Properties have been measured by producing 30 μ film with 2.5 BUR using 100% 920NT.

PROCESSING CONDITIONS

Typical processing conditions for 920NT are:

Barrel temperature: 190 - 220°C

Blow up ratio: 2.0 - 3.0