

SABIC® LLDPE 222WF

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

222WF is a butene-1 copolymerized linear low density polyethylene with slip and anti-block additives intended for films. It has excellent processing ability, good tensile properties, impact strength and low haze.

TYPICAL PROPERTY VALUES

Revision 20250616

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Density	0.922	g/cm ³	ASTM D792
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
@ 190°C & 2.16 kg load	2.0	g/10 min	ASTM D1238
MECHANICAL PROPERTIES ⁽¹⁾			
Dart Impact Strength ⁽²⁾	74	g	ASTM D1709
OPTICAL PROPERTIES ⁽¹⁾			
Haze	18.3	%	ASTM D1003
Gloss (45°)	44.8	%	ASTM D2457
FILM PROPERTIES ⁽¹⁾			
Tear strength MD Elmendorf	7.7	g/μm	ASTM D1922
Tear strength TD Elmendorf	9.8	g/μm	ASTM D1922
Tensile test film			
Strength at break, MD	28	MPa	ASTM D882
Strength at break, TD	25	MPa	ASTM D882
Elongation at break, MD	587	%	ASTM D882
Elongation at break, TD	615	%	ASTM D882
Secant modulus (1%), MD	248	MPa	ASTM D882
Secant modulus (1%), TD	257	MPa	ASTM D882
THERMAL PROPERTIES			
Melting point	122	°C	SABIC method

(1) Properties have been measured by producing 30 μm 100% pure blown film BUR 2.0

(2) Method A

APPLICATIONS

Typical applications include kinds of packaging films, like garment bags, product bags, lamination films, etc.

PROCESSING CONDITIONS

Typical processing conditions for SABIC® 222WF are: Die gap: 2 mm, Melt temperature: 200°C.

MEDICAL & FOOD REGULATION

The grades are not intended for and must not be used in any pharmaceutical / medical applications.

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CHEMISTRY THAT MATTERS™



STORAGE AND HANDLING

The resin should be stored in a manner to prevent a direct exposure to sunlight and / or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions that may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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