120W

Linear Low Density Polyethylene for Blown Film

Product Description

120W is Linear Low Density Polyethylene grade suitable for general purpose packaging. Films produced using these resins gives good tensile properties, impact strength and excellent optical properties.

Formulation: 1500 ppm Slip & 3000 ppm Antiblock

Typical Applications

Ice & frozen food bags, liners, produce bags, bread bags, textile & garment packaging etc.

Typical data

Properties	Unit	Value [1]	ASTM Method
Resin Properties			
Melt Flow Rate @ 190°C & 2.16 kg load	g/10 min.	1	D 1238
Density @ 23°C	kg/m^3	918	D 1505
Mechanical Properties[2]			
Tensile Strength @ break, MD	MPa	38	D 882
TD		30	
Tensile Elongation @ break, MD	%	650	D 882
TD		810	
Tensile Strength @ yield, MD	MPa	10	D 882
TD		9	
1% Secant Modulus, MD	MPa	260	D 882
TD		270	
Puncture Resistance	J/mm	60	SABIC Method
Dart Impact Strength	g	120	D 1709
Elmendorf Tear Strength, MD	g	160	D 1922
TD		350	
Optical Properties[2]			
Haze	%	10	D 1003
Gloss @ 60°	-	90	D 2457
Thermal Properties			
Vicat Softening Point	°C	100	D 1525

(1) Typical values; not to be construed as specification limits.
(2) Properties have been measured by producing 30 µ film with 2.5 BUR using 100% 120W.

Processing Conditions

Typical processing conditions for 120W are:
Melt temperature: 195 - 215°C
Blow up ratio: 2 - 3

Food Regulation

120W is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

Storage and Handling

Polyethylene 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 don't exceed 50°C. SABIC would not give warranty to bad storage conditions which 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.