F00952

High Density Polyethylene for Blown film

Product Description

F00952 is high molecular weight high density polyethylene copolymer grade specifically designed for blown film applications. Its high molecular weight, broad molecular weight distribution and high density combine successfully to give excellent extrudability with high film strength and rigidity.

Typical Applications

F00952 resin is recommended for blown film extrusion. This product is suggested for the manufacture of high strength grocery sacks, shopping bags and high quality thin films for multi wall sack liners and replacement for thin paper products. Films of this product can be readily treated and printed to give high quality graphics.

Typical data

Properties	Unit	Value [1]	ASTM Method
Resin Properties			
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min.	0.05	D 1238
@ 190°C & 21.6 kg load		9	
Density @ 23°C	kg/m^3	952	D 1505
Mechanical Properties[2]			
Tensile Strength @ break, MD	MPa	60	D 882
TD		56	
Tensile Elongation @ break, MD	%	400	D 882
TD		550	
Tensile Strength @ yield, MD	MPa	33	D 882
TD		31	
1% Secant Modulus, MD	MPa	1250	D 882
TD		1500	
Dart Impact Strength	g	180	D 1709
Elmendorf Tear Strength, MD	g	12	D 1922
TD		60	
Thermal Properties			
Vicat Softening Point	°C	125	D 1525

(1) Typical values; not to be construed as specification limits.
(2) Properties are based on 15 µm film produced at 4 BUR using 100% F00952.

Processing Conditions

Melt Temperature: 200 - 235°C
Frost Line Height: 6 - 8 times die Ø
BUR: 3 - 5

Food Regulation

F00952 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 material 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.