

POLYMERS

SABIC[®] HDPE Bimodal Blown Film F00851

PRODUCT DESCRIPTION

F00851 is high molecular weight high density polyethylene copolymer grade specifically designed for blown film applications. The design of the product, molecular architecture and density, gives it a unique combination of easy extrusion and high melt strength with strong physical properties which makes it suitable for producing thin films with excellent strength and rigidity.

TYPICAL APPLICATIONS

F00851 is recommended for blown film extrusion. It can be used for producing grocery sacks, shopping bags, refuse bags, thin film for bag on roll, wrapping film and also for replacement of thin paper products. Films produced with this product can be readily treated and printed to give high quality graphics.

TYPICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 5 kg load	g/10 min	0.3	ISO 1133
@ 190°C & 21.6 kg load		9	
Density @ 23°C	Kg/m ³	952	ISO 1183
MECHANICAL PROPERTIES ⁽²⁾			
Tensile Strength @ break, MD, TD	MPa	50 , 45	ISO 527
Tensile Elongation @ break, MD, TD	%	400 , 450	ISO 527
Dart Impact Strength, F50	g	240	ASTM D 1709
Elmendorf Tear Strength, MD, TD	mN	200 , 450	ISO 6383-2
Hardness (Shore D)	--	62	ISO 868
THERMAL PROPERTIES			
Vicat Softening Point	°C	75	ISO 306
Brittleness Temperature	°C	< -80	ASTM D 746

(1) Typical values: not to be construed as specification limits.

(2) Properties are based on 20 µm film produced at 4 BUR using 100% F00851.

Processing Conditions:

Melt Temperature: 200-225°C

Frost line Height: 6-8 times die Ø

BUR: 3-5

FOOD REGULATION

F00851 is suitable for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contacts 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.

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