



# FI1157 (Provisional Data sheet)

Bimodal High Density Polyethylene for Blown film

## Product Description

FI1157 is a 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 enable converters to produce film with very low gels level, high stiffness, impact resistance and with excellent gauge tolerances at very low film thicknesses.

FI1157 can be processed at high throughput with outstanding bubble stability.

## Typical Applications

FI1157 is recommended for the production of liners, bitumen release foils, lamination and paper lamination films, labels, artificial paper, thin films for bag on roll and heavy duty bags.

## Typical data

Properties	Unit	Value <sup>(1)</sup>	Test Method
<b>Resin Properties</b>			
Melt Flow Rate @ 190°C & 5 kg load	g/10 min.	0.35	ISO 1133
@ 190°C & 21.6 kg load		11	
Density @ 23°C	kg/m <sup>3</sup>	957	ISO 1183
<b>Mechanical Properties<sup>(2)</sup></b>			
Tensile Strength @ Yield, MD	MPa	50	ISO 527
TD		45	
Tensile Elongation @ break, MD	%	400	ISO 527
TD		450	
Dart Impact Strength, F <sub>50</sub>	g	240	ASTM D1709
Elmendorf Tear Strength, MD	mN	200	ISO 6383-2
TD		450	
<b>Thermal Properties</b>			
Vicat Softening Point	°C	75	ISO 306
Shore D Hardness	-	62	ISO 868
Brittleness Temperature	°C	<-80	ASTM D746

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

(2) Properties are based on 20µm film produced at 4 BUR using 100% FI1157.

## Processing Conditions

Melt Temperature: 200 - 225°C

Frost Line Height: 6 - 8 times die Ø

BUR: 3 - 5

### **Food Regulation**

FI1157 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.

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