



FI0644 (Provisional Data sheet)

Bimodal High Density Polyethylene for Blown film

Product Description

FI0644 is a high molecular weight high density polyethylene copolymer grade specifically designed for blown film applications. FI0644 features are outstanding toughness and impact properties, with very low gel level.

Typical Applications

FI0644 is recommended for blown film extrusion. It can be used for producing heavy duty bags, grocery sacks, shopping bags, carrier- and T-shirt bags, refuse bags, liners for multi-wall sacks and liners for frozen food and meat. The grade is suitable to blend with LLDPE & LDPE and can be used in co-extrusion process.

Typical data

Properties	Unit	Value ⁽¹⁾	Test Method
Resin Properties			
Melt Flow Rate @ 190°C & 5 kg load	g/10 min.	0.18	ISO 1133
@ 190°C & 21.6 kg load		5.4	
Density @ 23°C	kg/m ³	944	ISO 1183
Mechanical Properties⁽²⁾			
Tensile Strength @ Yield, MD	MPa	50	ISO 527
TD		45	
Tensile Elongation @ break, MD	%	400	ISO 527
TD		450	
Dart Impact Strength, F ₅₀	g	260	ASTM D1709
Elmendorf Tear Strength, MD	mN	200	ISO 6383-2
TD		400	
Thermal Properties			
Vicat Softening Point	°C	73	ISO 306
Shore D Hardness	-	60	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% FI0644.

Processing Conditions

Melt Temperature: 200 - 225°C

Frost Line Height: 6 - 8 times die Ø

BUR: 3 - 5

Food Regulation

FI0644 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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