



F10750 (Provisional Data sheet)

Bimodal High Density Polyethylene for Blown film

Product Description

F10750 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

F10750 is recommended for blown film extrusion. It can be used for producing grocery sacks, shopping bags, refuse bags, thin films 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
Resin Properties			
Melt Flow Rate @ 190°C & 5 kg load	g/10 min.	0.22	ISO 1133
@ 190°C & 21.6 kg load		7.5	
Density @ 23°C	kg/m ³	950	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	240	ASTM D1709
Elmendorf Tear Strength, MD	mN	250	ISO 6383-2
TD		450	
Thermal Properties			
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% F10750.

Processing Conditions

Melt Temperature: 200 - 225°C

Frost Line Height: 6 - 8 times die Ø

BUR: 3 - 5

Food Regulation

FI0750 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.

Saudi Basic Industries Corporation, P.O.Box 5101, Riyadh 11422, Kingdom of Saudi Arabia
Tel: 966 1 2258000
Fax: 966 1 2259000

Technical Marketing
Tel: 966 1 2659166
Fax: 966 1 2653544
Toll-free 800 1245577

PE Sales:
Fax: 966 1 2258760
Website: www.sabic.com

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