



## TECHNICAL DATA SHEET

## HDPE F00952 – (HIGH DENSITY POLYETHYLENE)

**Product Description**

HDPE F00952 resin is a high molecular weight High Density Polyethylene copolymer which has been designed specifically for blown film extrusion. It has broad molecular distribution and high density combine successfully to give excellent extrudability with high film strength and rigidity. The material contains anti-oxidant.

**Typical applications:**

- Grocery sacks
- Shopping bags
- High quality thin films
- Thin paper products

**Origin:** SAUDI

➤ SABIC

Polymer Properties	Test Method	Units	Typical Value
at 190 °C and 2.16 kg <sup>2)</sup>	ISO 1133	dg/min	0.05
at 190°C and 21.6 kg	ISO 1133	dg/min	9
Density <sup>1)</sup>	ASTM D1505	kg/m <sup>3</sup>	952
<b>Film properties</b>			
Dart Impact F50	ASTM D1709	g	180
Tear strength TD Elmendorf	ASTM D1922	g/μm	60
Tear strength MD Elmendorf	ASTM D1922	g/μm	12
<b>Tensile Test Films</b>			
Strain at break TD	ASTM D882	%	550
Strain at break MD	ASTM D882	%	400
Stress at break MD	ASTM D882	MPa	60
Stress at break TD <sup>1)</sup>	ASTM D882	MPa	56
Modulus of elasticity TD	ASTM D882	MPa	1500
Yield stress TD	ASTM D882	%	31
Yield stress MD	ASTM D882	MPa	33
Modulus of elasticity MD	ASTM D882	MPa	1250



**Thermal Properties**

**VICAT SOFTENING TEMPERATURE**

Vicat softening temperature	ASTM D1525	°C	125
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- 1) Properties are based on 15 µm film produced at 4 BURS using 100% F00952
- 2) Typical values: not to be construed as specification limits.

