

PRODUCT NAME: HDPE FJ00952
Supplier: SABIC®
Product Identification & Description

FJ00952 is TNPP additive free grade, high molecular weight High Density Polyethylene copolymer which has a broad molecular weight distribution. 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

FJ00952 resin is recommended for blown film extrusion. This product is suggested for the manufacture of high strength grocery sacks, shopping bags and high quality thin films for multi wall sack liners and replacement for thin paper products. Films of this product can be readily treated and printed to give high quality graphics.

Physical Properties

Property	Typical Values	Units	Test Methods
Melt Flow Rate @ 190 °C / 2.16 kg	0.05	dg/min	ISO 1133
Melt Flow Rate @ 190 °C / 21.6 kg	9	dg/min	ISO 1133
Density	952	kg/m ³	ASTM D1505

Mechanical Properties

Property	Typical Values	Units	Test Methods
Dart Impact Strength	180	g/μm	ASTM D1709
Tear Strength TD (Elmendorf)	60	g/μm	ASTM D1922
Tear Strength MD (Elmendorf)	12	g/μm	ASTM D1922
Strain at Break TD	550	%	ASTM D882
Strain at Break MD	400	%	ASTM D882
Stress at Break MD	60	MPa	ASTM D882
Stress at Break TD	56	MPa	ASTM D882
1% secant modulus, TD	1500	MPa	ASTM D882
1% secant modulus, MD	1250	MPa	ASTM D882
Yield Stress TD	31	MPa	ASTM D882
Yield Stress MD	33	MPa	ASTM D882

Thermal Properties

Property	Typical Values	Units	Test Methods
Vicat Softening Temperature	125	°C	ASTM D1525

Processing Conditions

Typical processing conditions for FJ00952 are:

- Melt Temperature: 200 - 235°C
- Frost line Height: 6 - 8 times die Ø
- BUR: 3 - 5

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.

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes.

The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

Revision: This datasheet replaces all previous versions. **Revision Date:** Mar 2026