



F46003E

HIGH DENSITY POLYETHYLENE For Blown Film

F46003E is a High-Density Polyethylene grade suitable for blending in monolayer film applications. The resin offers good processability and stiffness to the blown film product.

TYPICAL CHARACTERISTICS*

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE**
Melt Flow Index (190°C / 2.16 Kg)	ASTM D 1238	g/10 min.	1.1
Density (@ 23°C)	ASTM D 1505	g/cc	0.950
Tensile Strength at Yield (MD/TD)	ASTM D 882	MPa	29/26
Ultimate Tensile Strength (MD/TD)	ASTM D 882	MPa	45/40
Elongation @ Break (MD/TD)	ASTM D 882	%	780/950
Dart Impact Strength, F50 (38mm Dart, 66 cm Height)	ASTM D 1709	g/μm	2
Tear Strength (MD/TD)	ASTM D 1922	g/μm	0.40 / 0.45

*Typical characteristics and not to be taken as specifications.

**Typical Values (Mechanical) with 40 μ film made with 0.75 mm die gap & 2.75 BUR.

APPLICATIONS:

Recommended for use in blends for carry bags for various food and non-food packaging applications.

Regulatory Information

- Meets the requirements stipulated in standard IS: 10146 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to IS 16738:2018 "Positive List of Constituents for Polypropylene, Polyethylene and their Copolymers for its Safe Use in Contact with Foodstuffs and Pharmaceuticals"
- The grade and the additives incorporated in it also comply with the FDA: CFR Title 21,177.1520, Olefin polymers.

Storage Recommendations

- Bags should be stored in dry/closed conditions at temperatures below 50°C and protected from UV / direct sunlight.