



# F46003

## POLYETHYLENE

### FOR BLOW MOULDING & BLOWN FILM GRADE

F46003 is a High Density Polyethylene grade suitable for general purpose blown film & extrusion blow moulding applications. Articles blown from this grade exhibit moderate to good stiffness. The resin offers good melt strength, ESCR and impact resistance.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value **
Density (23°C)	ASTM D1505	g/cc	0.946
Melt Flow Index (190°C/2.16 kg)	ASTM D1238	g/10 min	0.30
Tensile Strength at Yield (MD/TD)	ASTM D882	MPa	29/26
Ultimate Tensile Strength (MD/TD)	ASTM D882	MPa	45/40
Elongation at break (MD/TD)	ASTM D882	%	780/950
Dart Impact Strength, F50 (38 mm Dart, 66 cm height)	ASTM D1709	g/μm	2
Tear Strength (MD/TD)	ASTM D1922	g/μm	0.4/4.5

\*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

It is also used for producing blown film and is recommended for use in carry bags and co-extruded film structures

#### Regulatory Information

- Meets the requirements stipulated in standard IS : 10146-1982 on "Specification for Polyethylene for safe use in contact with foodstuffs, pharmaceuticals, and drinking water". It also conforms to the positive list of constituents as prescribed in IS : 10141-1982. 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.