



# 50GF003 HIGH MOLECULAR WEIGHT FOR BLOWN FILM

Relene 50GF003 is a blown film grade of High Molecular Weight High Density Polyethylene (HMHDPE). It Possesses bimodal molecular weight distribution, which improves processability. 50GF003 can readily be processed on HMHDPE blown film lines. The films will have homogeneous, finely textured, opaque appearance and exhibit very good mechanical properties.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C/5.0 kg)	ASTM D1238	gm/10 min	0.30
Density (@ 23°C)	ASTM D1505	g/cc	0.950
Tensile Strength at Yield (MD/TD)	ASTM D 882	MPa	31/32
Ultimate Tensile Strength (MD/TD)	ASTM D 882	MPa	54/51
Elongation @ Break (MD/TD)	ASTM D 882	%	>600
Dart Impact Strength, F50 (38mm dart, 66cm Height)	ASTM D 1709	g/μm	8
Tear Strength (MD/TD)	ASTM D 1922	g/μm	0.6/9.2

\*Typical Characteristics are not to be taken as specifications.

\*\*Typical Values (Mechanical) with 20μ film made with 0.75mm die gap & 4 BUR

## Applications

High gloss film for carrier bags, counter bags.

## 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 the positive list of constituents as prescribed in IS : 10141. 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.