



# 50GF003

## HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE FOR BLOWN FILM

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 extrusion 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	0.3
Density (23°C)	ASTM D1505	gm/cm <sup>3</sup>	0.950
Tensile Strength at Yield	ASTM D638	MPa	27
Elongation at Yield	ASTM D638	%	10
Flexural Modulus	ASTM D790	MPa	900
Notched Izod Impact Strength	ASTM D256	J/m	No Break
Vicat Softening Point	ASTM D1525	°C	125

\*Typical Characteristics and not to be taken as specifications

\*\*Mechanical Properties are on Compression moulding

### Applications

High gloss film for carrier bags, counter bags.

### 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.