



# 52GB003

## HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE FOR MEDIUM VOLUME BLOW MOULDED CONTAINERS

52GB003 is a High Molecular Weight High Density Polyethylene blow moulding grade with high stiffness and impact strength and good ESCR. It possesses medium molecular weight distribution, very good swell and easy processability. 52GB003 can readily be processed on most HDPE blow moulding machines.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C/5.0 kg)	ASTM D1238	gm/10 min	0.45
Melt Flow Index (190°C/21.6 kg)	ASTM D1238	gm/10 min	8.5
Density (23°C)	ASTM D1505	gm/cm <sup>3</sup>	0.952
Tensile Strength at Yield	ASTM D638	MPa	29
Elongation at Yield	ASTM D638	%	11
Flexural Modulus	ASTM D790	MPa	1000
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

Medium volume containers, liners, sheets.

### 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.