



# 54GB012 HIGH DENSITY POLYETHYLENE

## SMALL VOLUME BLOW MOULDED CONTAINERS

54GB012 is a High Density Polyethylene (HDPE) blow moulding grade. It possesses relatively higher density and stiffness, good flow and impact strength, good ECSR and bimodal molecular weight distribution for easy processability. 54GB012 can readily be processed on most HDPE blow moulding lines.

Typical Characteristics*			
Property	Test Method	Unit	Typical Value**
Melt Flow Index (190°C/5.0 kg)	ASTM D1238	gm/10 min	1.2
Density (23°C)	ASTM D1505	gm/cm <sup>3</sup>	0.954
Tensile Strength at Yield	ASTM D638	MPa	27
Elongation at Yield	ASTM D638	%	11
Flexural Modulus	ASTM D790	MPa	900
Notched Izod Impact Strength	ASTM D256	J/m	No Break
Vicat Softening Point	ASTM D1525	°C	127

\*Typical Characteristics and not to be taken as specifications

\*\*Mechanical Properties are on Injection Moulded Specimen

### Applications

Containers upto 10L for edible oil, cosmetic & personal care products.

### 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.

Reliance Industries Limited, Product - Application & Technology Group, PRTC.

Swastik Mill Compound, V. N. Purav Marg, Chembur, Mumbai-400 071. Tel.: +91-22-6767 7000. E-mail: polymer\_patsupport@ril.com Website: www.ril.com

• The information and data presented herein is true and accurate to the best of our knowledge. No warranty or guarantee expressed or implied, is made regarding performance or other wise. This information and data may not be considered as a suggestion to use our products without taking into account existing patents, or legal provisions or regulations, whether national or international. • The user of any information and/or data is advised to obtain the latest details from any of the offices of the company or its authorised agents, as the information and/or data is subject to change based on the research and development work undertaken by the company.

Updated as of May, 2007