

# RELENE® 54GB012

High Density Polyethylene  
Reliance Industries Limited

Message:

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

General Information			
Features	Bimodal Molecular Weight Distribution		
	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Density		
	High ESCR (Stress Crack Resist.)		
Uses	Blow Molding Applications		
	Containers		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Injection Molded)	27.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	11	%	ASTM D638
Flexural Modulus (Injection Molded)	900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ASTM D1525

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