

RELENE® 52GB003

High Density Polyethylene
Reliance Industries Limited

Message:

52GB003 is a Semi 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.

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
	High Stiffness		
	Med.-Wide Molecular Weight Distrib.		
Uses	Blow Molding Applications		
	Containers		
	Liners		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1520		
	IS 10141-1982		
	IS 10146-1982		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	8.5	g/10 min	
190°C/5.0 kg	0.45	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	29.0	MPa	ASTM D638
Tensile Elongation (Yield, Compression Molded)	11	%	ASTM D638
Flexural Modulus (Compression Molded)	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method

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Recommended distributors for this material

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