

RELENE® 52GB002

High Density (HMW) Polyethylene
Reliance Industries Limited

Message:

52GB002 is a High Molecular Weight High Density Polyethylene (HMHDPE) blow molding grade with balanced stiffness and impact strength. It possesses broad molecular weight distribution, very good swell and excellent processability. 52GB002 can readily be processed on most of HDPE blow moulding machines with accumulators.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Molecular Weight		
	Med.-Wide Molecular Weight Distrib.		
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	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/10.0 kg	0.80	g/10 min	
190°C/21.6 kg	5.0	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, Compression Molded)	25.0	MPa	ASTM D638
Tensile Elongation (Yield, Compression Molded)	12	%	ASTM D638
Flexural Modulus (Compression Molded)	1050	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ASTM D1525

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

