

# Indothene HD 52GB010

High Density Polyethylene

Reliance Industries Limited

## Message:

Indothene-HD grade 52GB010 is a High Density Polyethylene (HDPE) blow moulding grade produced by Stirred Tank Heavy Diluent (STHD) process adopting process know-how of M/s. Basell. It possesses good die swell, weld line strength, impact strength & broad molecular weight distribution for easy processability. 52GB010 can readily be processed on most of the HDPE blow moulding lines.

### FOOD CONTACT APPLICATIONS :

This grade meets the requirements of Indian Standard IS-10146-1982 on "Polyethylene for its safe use in contact with food stuffs, pharmaceuticals and drinking water". It also conforms to the positive list of constituents as approved in IS:10141:1982. The grade complies with FDA regulation : CFR title 21 , 177.1520, Olefin polymer

General Information			
Features	Controlled Die Swell Food Contact Acceptable Good Impact Resistance Good Processability Good Strength Med.-Wide Molecular Weight Distrib.		
Uses	Adhesives Blow Molding Applications Containers Cosmetic Packaging Food Containers Food Packaging Pharmaceutical Packaging Shipping Containers		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	20	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	31.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, 3.20 mm, Injection Molded)	11	%	ASTM D638

Flexural Modulus <sup>3</sup> (3.20 mm, Injection Molded)	900	MPa	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (3.20 mm, Injection Molded)	No Break		ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Vicat Softening Temperature	127	°C	ASTM D1525
<b>Extrusion</b>	<b>Nominal Value</b>	<b>Unit</b>	
Cylinder Zone 1 Temp.	175	°C	
Cylinder Zone 2 Temp.	185	°C	
Cylinder Zone 3 Temp.	195	°C	
Cylinder Zone 4 Temp.	205	°C	
Die Temperature	185	°C	
<b>NOTE</b>			
1.	Type I		
2.	Type I		
3.	Type I		

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