

Indothene HD 52GB001

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD 52GB001 is a High Molecular Weight High Density Polyethylene (HM-HDPE) blow molding grade with very good impact strength, stiffness and good ESCR produced by Stirred Tank Heavy Diluent (STHD) process adopting process know-how of M/s. Hoechst, Germany. It possesses medium molecular weight distribution and easy processability. Indothene-HD 52GB001 can readily be processed on most of the Large volume blow moulding machines with accumulators.

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	Food Contact Acceptable		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
	High Molecular Weight		
	Med.-Wide Molecular Weight Distrib.		
Uses	Blown Containers		
	Drums		
	Industrial 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 ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/10.0 kg	0.40	g/10 min	
190°C/21.6 kg	2.3	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Compression Molded)	30.0	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Compression Molded)	6.0	%	ASTM D638
Flexural Modulus ³ (3.20 mm, Compression Molded)	1150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact (3.20 mm, Compression Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	128	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190	°C	
Cylinder Zone 2 Temp.	200	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	220	°C	
Die Temperature	215	°C	
NOTE			
1.	Type I		
2.	Type I		
3.	Type I		

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