Indothene HD 52GB002

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD 52GB002 is a High Molecular Weight High Density Polyethylene blow molding grade with balanced stiffness and impact strength produced by Stirred Tank Heavy Diluent (STHD) process adopting process know-how of M/s. Basell, Germany. It possesses broad molecular weight distribution, very good swell and excellent processability. Indothene-HD 52GB002 can readily be processed on most of HDPE blow moulding machines with accumulator.
FOOD CONTACT APPLICATIONS :
This grade shall meet the requirements of Indian Standard IS-10146-1982 on "Polyethylene for its safe use in contact with food stuffs, pharmaceuticals and drinking water". It shall also conform to the positive list of constituents as approved in IS:10141:1982. The grade shall also comply with FDA regulation : CFR title 21 , 177.1520, Olefin polymer.

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 Blown Containers 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/cm³	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 [1] (Yield, 3.20 mm, Compression Molded)	25.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 3.20 mm, Compression Molded [2]	12	%	
Break, 3.20 mm, Injection Molded [3]	600	%	

Flexural Modulus [4] (3.20 mm, Compression Molded)	1050	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	126	°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 IV		
4.	Type I		

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