

Indothene HD 54GB012

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD 54GB012 is a High Density Polyethylene (HDPE) blow moulding grade produced by Stirred Tank Heavy Diluent (STHD) process adopting process know-how of M/s. Hoechst, Germany. It possesses relatively higher density and stiffness, good flow and impact strength, good ECSR & bimodal molecular weight distribution for easy processability. Indothene-HD 54GB012 can readily be processed on most 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	Food Contact Acceptable		
	Good Flow		
	Good Impact Resistance		
	Good Stiffness		
	High Density		
	High ESCR (Stress Crack Resist.)		
	Med.-Wide Molecular Weight Distrib.		
Uses	Automotive Applications		
	Blow Molding Applications		
	Containers		
	Cosmetic Packaging		
	Netting		
	Personal Care		
	Pharmaceutical Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	25	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	30.0	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	11	%	ASTM D638

Flexural Modulus ³ (3.20 mm, Injection Molded)	900	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm, Injection Molded)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170	°C	
Cylinder Zone 2 Temp.	180	°C	
Cylinder Zone 3 Temp.	190	°C	
Cylinder Zone 4 Temp.	200	°C	
Die Temperature	185	°C	
NOTE			
1.	Type I		
2.	Type I		
3.	Type I		

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