

Indothene HD 46GB012

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD 46GB012 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 high impact strength, outstanding ESCR and bimodal molecular weight distribution for easy processability. Indothene-HD 46GB012 can readily be processed on most HDPE blow moulding lines. Indothene-HD is the brand name of High Density Polyethylene (HDPE) manufactured and marketed by Indian Petrochemicals Corporation Limited.

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		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Containers		
	Cosmetics		
	Pharmaceuticals		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	0.946	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	23	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Environmental Stress-Cracking Resistance (Compression Molded, F50)	> 600	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	23.0	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Compression Molded)	12	%	ASTM D638
Flexural Modulus ³ (3.20 mm, Injection Molded)	700	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	123	°C	ASTM D1525

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	170	°C
Cylinder Zone 2 Temp.	190	°C
Cylinder Zone 3 Temp.	200	°C
Cylinder Zone 4 Temp.	210	°C
Die Temperature	215	°C

NOTE		
1.	Type I	
2.	Type I	
3.	Type I	

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