

Indothene HD 52GF004

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD grade 52GF004 is a blown film grade of High Molecular Weight High Density Polyethylene (HM-HDPE), produced by Hostalen Stirred Tank Heavy Diluent(STHD) Slurry process at Gandhar. It possesses broad molecular weight distribution, which improves processability. 52GF004 can readily be processed on HMHDPE blown film extrusion lines. The films will have homogeneous, finely textured, opaque appearance and exhibit balanced mechanical properties and very good gloss.

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	High molecular weight		
	Highlight		
	Compliance of Food Exposure		
	Medium wide molecular weight distribution		
Uses	Films		
	Lining		
	Bags		
	Sheet		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural color		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/21.6 kg	8.5	g/10 min	ASTM D1238
190°C/5.0 kg	0.45	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D882
MD: Yield, 20 μm, blown film	31.0	MPa	ASTM D882
TD: Yield, 20 μm, blown film	29.0	MPa	ASTM D882
MD: Broken, 20 μm, blown film	50.0	MPa	ASTM D882
TD: Broken, 20 μm, blown film	45.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 20 μm, blown film	500	%	ASTM D882
TD: Broken, 20 μm, blown film	630	%	ASTM D882

Dart Drop Impact ¹ (20 μm, Blown Film)	7.0	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 20 μm, blown film	0.40	g	ASTM D1922
TD: 20 μm, blown film	12	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	125	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180	°C	
Cylinder Zone 2 Temp.	200	°C	
Cylinder Zone 3 Temp.	210	°C	
Cylinder Zone 4 Temp.	220	°C	
Die Temperature	215	°C	
Extrusion instructions			
Blow up ratio: 3 to 5 Neck height: 6D to 8D (D-Die dia)			
NOTE			
1.	F50		

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