

Indothene HD HD55EF010

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD HD55EF010 is a high density polyethylene grade produced using the process know-how of M/s. BP Chemicals, specially formulated to manufacture oriented monofilament products. It has narrow molecular weight distribution and has very good processability, less motor load and high output combined with very good elongation and filament properties to make it a grade of choice.

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	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
	Extended tensile rate		
	Narrow molecular weight distribution		
Uses	Twine		
	Textile applications		
	Rope		
	Web		
	Filament		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural color		
Forms	Particle		
Processing Method	Filament extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	22.0	MPa	ASTM D638
Tensile Elongation ² (Yield, 3.20 mm, Injection Molded)	15	%	ASTM D638
Flexural Modulus ³ (3.20 mm, Injection Molded)	820	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ASTM D1525
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	220 - 260	°C
Cylinder Zone 2 Temp.	220 - 260	°C
Cylinder Zone 3 Temp.	220 - 260	°C
Cylinder Zone 4 Temp.	220 - 260	°C
Die Temperature	240 - 260	°C

Extrusion instructions

Stretching temp (Oven): 80° to 95°C Stretch ratio: 6.0 to 8.0

NOTE

1.	Type 1
2.	Type 1
3.	Type 1

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