Indothene HD HD53MA020

High Density Polyethylene

Reliance Industries Limited

Message:

Indothene-HD HD53MA020 is a low MI High Density Polyethylene grade produced using the process know-how of M/s. BP Chemicals. This grade is specially designed and recommended for manufacture of technical moulding articles such as Caps and closures for various applications. It has a very narrow molecular weight distribution, which makes it very much suitable for Injection Moulding and products manufactured have very good gloss, impact strength and rigidity.
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 & additive used shall comply with FDA regulation : CFR title 21 , 177.1520, Olefin polymer.

General Information			
Features	Food Contact Acceptable Good Impact Resistance High Gloss Medium Rigidity Narrow Molecular Weight Distribution		
Uses	Caps Closures		
Agency Ratings	FDA 21 CFR 177.1520		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.953	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.20 mm, Injection Molded)	26.0	MPa	ASTM D638
Tensile Elongation [2] (Break, 3.20 mm, Injection Molded)	800	%	ASTM D638
Flexural Modulus [3] (3.20 mm, Injection Molded)	1000	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm, Injection Molded)	300	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Vicat Softening Temperature	121	°C	ASTM D1525
Peak Crystallization Temperature (DSC)	130	°C	ASTM D3418

Injection	Nominal Value	Unit
Rear Temperature	180 to 280	°C
Middle Temperature	180 to 280	°C
Front Temperature	180 to 280	°C
Nozzle Temperature	200 to 280	°C
Mold Temperature	40.0 to 70.0	°C
Injection Pressure	58.8 to 98.1	MPa

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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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