

High Density Polyethylene

Oriented Tape & Monofilament

Product Description:

HDPE 010E52 is a High Density Polyethylene manufactured using **Nova Chemicals / Solartech Solution Polymerization** Technology. 010E52 exhibits excellent orientation characteristics, low water carry-over and superior mechanical properties.

BIS Designation Code for HDPE 010E52 as per IS 7328:2020 is: **IS 7328-3B-TBQ-FDA.**

Recommended Applications:

HDPE 010E52 is recommended for the following applications:

- Raffia for Woven Sacks
- Wrapping fabric
- Tarpaulin
- Rachel Bags

Need pricing, availability, or technical support? Explore our website - www.jitsy.in

Typical Properties:

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190°C & 2.16Kg)	ASTM D1238	g/10min	0.90
Density @ 23°C	ASTM D792	g/cm ³	0.952
Mechanical Properties*			
Tensile Strength @ Yield (Type-IV)	ASTM D638	MPa	25
Tensile Strength @ Break (Type-IV)	ASTM D638	MPa	37
Elongation @ Break (Type-IV)	ASTM D638	%	>800
Flexural Modulus	ASTM D790	MPa	1050
Tensile Strength @ Yield (MD/TD)**	ASTM D882	MPa	21.5/26.0
Elongation @ Break (MD/TD)**	ASTM D882	%	1100/1250
Dart Impact Strength**	ASTM D1709	g/μ	1.5
Thermal Properties			
Vicat Softening Point	ASTM D1525	°C	124

#Typical values not to be construed as specification limits. Values may change without any prior notice.

Mechanical Properties (except for film properties) tested on Compression Moulded test specimens.

** Film properties tested on 40μ film made with 0.75mm die gap & 2.75BUR.

Recommended Processing Temperature: 180 – 250°C

Packaging Information:

This material is packed and available in raffia bags with net content of 25.0 Kg only. The raffia bags used conforms to the minimum strength requirements of BIS, however, customer shall take due care while handling the bag. Prolonged exposure of these bags to sunlight may deteriorate the bag's performance and cause spillage and wastage. IOCL does not warranty loss of material due to poor material handling practices.

Storage & Handling:

Prevent HDPE Material from direct exposure to sunlight & heat to avoid quality deterioration. The storage location should be dry, dust free and the storage temperature should not exceed **50°C**. Non-compliance to these precautionary measures can lead to degradation of the product causing colour changes, odor and inadequate product performance. It is advised to process HDPE material within 06 months of delivery.

Regulatory Information:

HDPE 010E52 meets the "Specification for Polyethylene for safe use in contact with Foodstuff, Pharmaceuticals and Drinking water" as per IS: 10146-1982. It also conforms to the positive list of constituents as per IS: 16738-2018. The grade and Additives incorporated shall meet with FDA: CFR Title21, 177.1520, Olefin Polymers.

Disclaimer:

IOCL assumes no liability whatsoever in respect of application, processing or any use made of the aforementioned information or products, or any consequence thereof. No liability whatsoever shall be attached to any of the IOCL companies for any infringement of the rights owned or controlled by a third party in intellectual, industrial or other property by reason of application, processing or use of the aforementioned information or products by the user.

Need pricing, availability, or technical support? Explore our website - www.jitsy.in



Registered Office Address →
G-9, Aliyavar Jung Marg,
Bandra (East), Mumbai - 400051
Maharashtra, India.

Contact Address →
Product Application and Development Center (PADC),
Near Panipat Naphtha Cracker Complex,
Village – Bajjattan, Panipat – 132140, Haryana, India

Contact Details →
Tel : +91-180-2526702, 2526708
Fax : +91-180-2528651
Web : <https://propel.indianoil.in>