

High Density Polyethylene

Oriented Tape & Monofilament

Product Description:

HDPE 012E50 is a High Density Polyethylene manufactured using Nova Chemicals' Solartech Solution Polymerization Technology. 012E50 exhibits excellent processability, low water carry-over and superior mechanical properties.

BIS Designation Code for HDPE 012E50 as per IS 7328:2020 is: **IS 7328-3B-TBQ-FDA.**

Recommended Applications:

HDPE 012E50 is recommended for the following applications:

- Tarpaulin
- Woven Sacks
- Monofilaments for mosquito nets, fishing nets & filter cloth, etc.

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

Tested Properties	Test Method	UOM	Values*
Resin Properties			
Melt Flow Index (190°C & 2.16Kg)	ASTM D1238	g/10min	1.2
Density @ 23°C	ASTM D792	g/cm ³	0.950
Mechanical Properties*			
Tensile Strength @ Yield (Type-IV)	ASTM D638	MPa	26
Tensile Strength @ Break (Type-IV)	ASTM D638	MPa	38
Elongation @ Break (Type-IV)	ASTM D638	%	>1000
Flexural Modulus	ASTM D790	MPa	1100
Notched Izod Impact Strength @ 23°C	ASTM D256	J/m	400
Hardness	ASTM D2240	Shore D	65
Thermal Properties			
Vicat Softening Point	ASTM D1525	°C	126

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

*Mechanical Properties tested on Compression Moulded test specimens.

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 012E50 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:

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