

High Density Polyethylene

Film Extrusion

Product Description:

HDPE F52H04 is a natural colored grade produced with the latest Mitsui CX slurry polymerization Technology exhibiting following features:

- ✓ Excellent Mechanical Strength
- ✓ High Stiffness
- ✓ Excellent processability (at High Speed)

HDPE F52H04 is recommended for following applications:

- ✓ Tissue-like films
- ✓ Garment/Grocery/merchandise bags
- ✓ Disposal waste bags
- ✓ Shopping/Counter bags

Typical Properties:

Sr. No.	Properties	Test Method	Units	Values*
Physical Properties				
1	Melt Flow Index (190°C & 5.00 kg)	ASTM D1238	g / 10 min	0.25
2	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.952
Mechanical Properties				
3	Tensile Strength @ Yield	ASTM D638	MPa	25
4	Tensile Strength @ Break	ASTM D638	MPa	36
5	Elongation @ Break	ASTM D638	%	>600
6	Notched Izod Impact Strength	ASTM D256	J/m	230
7	Hardness	ASTM D2240	Shore D	64
8	ESCR (F ₅₀ , 10% Igepal Soln. v/v)	ASTM D1693B	Hours	>500
Thermal Properties				
9	Vicat Softening Point (10N)	ASTM D1525	°C	124
** Mechanical Properties tested on Compression Molded type IV Specimen.				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

Recommended Processing Temperature: 180 – 220 °C

Note: This product is not to be used in the manufacture of single use plastic items prohibited under the Plastic Waste Management Rules, 2016 including plastic sheets < 50 micron thickness, non-woven carry bags < 60 GSM, Carry bags < 120 micron thickness “

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F52H04



Regulatory Requirements:

HDPE Film grade F52H04 meets the requirements stipulated in IS 10146:1982 on 'Specification of Polyethylene for safe use in contact with Foodstuff, Pharmaceutical & Drinking water'. The grade and Additives incorporated in this grade meets the positive list of constituents as prescribed in IS 10141:1982. The Grade and the additives incorporated in it also comply with the FDA: CFR Title 21,177.1520, Olefin Polymers.

Storage & Handling:

Prevent Polyethylene 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 Color changes, Odor & inadequate product performance.

Health and Safety Information:

The product described herein may require precautions in handling and use because of toxicity, flammability, or other consideration. The Material Safety Data Sheet (MSDS) contains the available product health and safety information for this material and can be found at www.opalindia.in. Before using any material, a customer is advised to consult the MSDS for the product under consideration for use.



ONGC Petro additions Ltd

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