

F50H08



High Density Polyethylene

Film Extrusion

Product Description:

HDPE F50H08 is a natural colored grade produced with the latest Ineos Gas phase polymerization Technology exhibiting following features:

- ✓ Excellent draw-down ability
- ✓ High Stiffness & Tensile Strength
- ✓ Excellent processability

HDPE F50H08 is recommended for following applications:

- ✓ Strong thin films
- ✓ Carrier bags
- ✓ Grocery Sacks

Typical Properties:

Sr. No.	Properties	Test Method	Units	Values*
Physical Properties				
1	Melt Flow Index (190°C & 2.16 kg)	ASTM D1238	g / 10 min	0.08
2	Melt Flow Index (190°C & 21.6 kg)	ASTM D1238	g / 10 min	10
3	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.950
Mechanical Properties				
4	Tensile Strength @ Yield (MD/TD)**	ASTM D638	MPa	32/29
5	Tensile Strength @ Break (MD/TD)**	ASTM D638	MPa	57/65
6	Elongation @ Break (MD/TD)**	ASTM D638	%	450/500
7	Dart drop impact strength**	ASTM D1709	gms	150
8	Hardness	ASTM D2240	Shore D	65
9	ESCR (F50, 10% Igepal soln. v/v)	ASTM D1693B	Hrs	>500
Thermal Properties				
9	Vicat Softening Point (10N)	ASTM D1525	°C	124
** Mechanical Properties tested on 20 µ thick blown film made with 4.0 BUR				
* Typical Values and not to be taken as specification limits, values may change without any prior notice.				

Recommended Processing Temperature: 180 – 220 °C

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Regulatory Requirements:

HDPE Film grade F50H08 shall meet 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 shall meet the positive list of constituents as prescribed in IS 10141:1982. The Grade and the additives incorporated in it shall 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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