

Y5710



High Density Polyethylene

Monofilament

Product Description:

HDPE Y5710 is a natural colored grade produced with the latest Ineos Gas Phase polymerization

Technology exhibiting following features:

- ✓ Exceptional Tenacity
- ✓ Excellent processability

HDPE Y5710 is recommended for following applications:

- ✓ Monofilament for Nets
- ✓ Twines, Ropes

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	0.90
2	Density (at 23 °C)	ASTM D1505	gm/cm ³	0.957
Mechanical Properties				
3	Tensile Strength @ Yield	ASTM D638	MPa	24
4	Tensile Strength @ Break	ASTM D638	MPa	35
5	Elongation @ Break	ASTM D638	%	>500
6	Charpy Impact Strength	ISO 179-1	KJ/m ²	8
7	Notched Izod Impact Strength (at 23 °C)	ASTM D256A	J/m	120
8	Flexural Modulus	ASTM D790A	MPa	950
9	Hardness	ASTM D2240	Shore D	63
Thermal Properties				
10	Vicat Softening Point (10N)	ASTM D1525	°C	122
** 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: 200 – 240 °C

Note: This product is not to be used in the manufacture of SUP (Single Use Plastic) items prohibited under PWM (Plastics Waste Management) Rules, 2016.

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Provisional Technical Datasheet

Y5710



Regulatory Requirements:

HDPE monofilament grade Y5710 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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