Braskem IDESA

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Technical Data Sheet
Revision 0 (September/15)

High Density Polyethylene HDF1050

Description:

HDF1050 is a high molecular weight high density polyethylene copolymer with broad bimodal weight distribution developed for the blown film segment. Films made with this degree offer high stiffness, good heat sealing response, and resistance to trait propagation. This material meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1520.

Applications:

Very thin film on high-speed line, low caliber.

Process:

Blown Film Extrusion

Control Properties:

	ASTM Method	Units	Values
Melt Flow Rate (190°C/2.16Kg)	D 1238	g/10 min	0.06
Melt Flow Rate (190°C/21.6Kg)	D 1238	g/10 min	9.5
Density	D 4883	g/cm^3	0.950

Typical Properties[1]:

Reference Properties in a Film[2]

	ASTM Method	Units	Values
Resistance Dart Drop	D 1709	gF	360
Elmendorf Tear Strength, MD/TD	D 1922	gF	40/90
1% Secant Modulus, MD/TD	D 882	MPa	760/940
Tensile Strength at Yield	D 638	MPa	30/26
Tensile Strength at Break	D 638	MPa	75/47

1 Typical properties vary within specification limits. Values based on the grade INEOS J50-10N5000.
2 Monolayer blown film with an average thickness of 12.5 microns

Final Observations:

1. The information in this document is provided in good faith and reflects typical values obtained in our laboratories and should not be considered as absolute nor warranted. Only the properties and values mentioned on the Certificate of Quality are considered as product warranty.
2. In some applications, Braskem IDESA has developed resins well-tailored to meet specific requirements.
3. In case of doubts regarding our product use or for other applications, please contact our Braskem IDESA technical services serviciostecnicos@braskem.com
4. For information about safety, handling, individual protection equipment, first aid and disposal, consult the Safety Data Sheet (SDS). CAS Number: 25213-02-9.
5. The values reported in this document may change without Braskem IDESA previous communication.
6. Braskem IDESA does not recommend the use of this product for the manufacture of packages, parts or any other product used for storage or contact with parenteral solution nor with the inside of the human body.
7. This resin does not contain the substance Bisphenol A (BPA, CAS#80-05-7) in its composition.
8. The content of this Product Data Sheet replaces the one issued previously.