

**Technical Data Sheet**
Revision 02 (December/17)**High Density Polyethylene HDI4553****Description:**

HDI4553 is a high-flow, high density polyethylene intended for injection molding of thin wall containers. This material will allow for cycle time reduction while still imparting reasonable impact strength.

Applications:

Thin wall applications. Cultured dairy containers, margarine tubs and containers for frozen products.

Process:

Injection Molding.

Control Properties:

	Test Methods	Units	Values
Melt Flow Rate (190°C/21.6 kg)	D 1238	g/10 min	45
Density	D 4883	g/cm ³	0.951

Typical Properties¹:

	Test Methods	Units	Values
Tensile strength at yield	D 638	MPa	26.9
Elongation at yield	D 638	%	7.0
Flexural modulus, secant method at 1%	D 790	MPa	1155
Notched Izod impact strength	D 256	J/m	30
Vicat softening point at 10 N	D 1525	°C	121
Deflection temperature at 0.455 MPa	D 648	°C	66

¹Typical properties vary within specification limits.

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 serviciotecnicos@braskem.com
4. For information about safety, handling, individual protection equipment, first aid and disposal, consult the Safety Data Sheet (SDS) or please contact our Braskem IDESA safety team product.safety@braskem.com. 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. The content of this Product Data Sheet replaces the one issued previously.