


Technical Data Sheet
 Revision 3 (May/18)

High Density Polyethylene HDI0653U1

Description:

HDI0653U1 is a high density polyethylene with a narrow molecular weight distribution, developed for injection molding segment. Parts made from this material exhibit a shiny surface and good impact strength and stiffness. This resin has UV stabilizers.

Applications:

Containers and buckets.

Process:

Injection Molding

Control Properties:

	Test Methods	Units	Values
Melt Flow Rate (190°C/2.16 kg)	ASTM D1238	g/10 min	6.20
Density	ASTM D792	g/cm ³	0.953

Typical Properties¹:

	Test Methods	Units	Values
Strength at Yield	ASTM D638	MPa	28
Deformation at Yield	ASTM D638	%	7
Strength at Break	ASTM D638	MPa	31
Deformation at Break	ASTM D638	%	927
Modulus of Elasticity (secant 1%)	ASTM D638	MPa	1297
Flexural Modulus, (Secant 1%)	ASTM D790	MPa	1269
Izod Impact Strength	ASTM D256	J/m	48
VICAT Softening Point	ASTM D1525	°C	128
Heat Deflection Temperature (0.455 Mpa)	ASTM D648	°C	70
ESCR ²	Internal Methodology	h	11

¹ Test specimens from compression molded plaque according to ASTM D4703.

² 100% IGEAL

Final Observations:

- 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.
- In some applications, Braskem IDESA has developed resins well-tailored to meet specific requirements.
- In case of doubts regarding our product use or for other applications, please contact our Braskem IDESA technical services serviciostecnicos@braskem.com
- 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.
- The values reported in this document may change without Braskem IDESA previous communication.
- 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.
- 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.

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