


Technical Data Sheet
 Rev 04 December /17)

High Density Polyethylene HDP3049LS

Description:

HDP3049LS is a natural bimodal high-density polyethylene copolymer designed for the extrusion of pipe for potable water, natural gas, industrial and mining sectors.

Resin not yet certified by the Plastic Pipe Institute (PPI) as PE100 and PE4710, NSF/ANSI Standard 14, Standard 61, Standard 372.

The resin complies with the requirements of regulation NMX-E-018-CNCP-2012

Applications:

Potable water, natural gas, Industrial and Mining Pipe.

Process:

Pipe Extrusion.

Control Properties:

	Test Methods	Units	Values
Melt Flow Rate (190°C/5 kg)	ASTM D 1238	g/10 min	0.24
Density	ASTM D 792	g/m ³	0.949

Typical Properties¹:

	Test Methods	Units	Values
Tensile Strength at Yield	ASTM D 638	MPa	26
Elongation at break	ASTM D 638	%	>500
Tensile Modulus of Elasticity, Secant 1% Method	ASTM D 638	MPa	1064
Flexural Modulus, Secant 1% Method	ASTM D 790	MPa	1185
Izod Impact Strength ²	ASTM D 256	J/m	>650
Charpy Impact Strength ²	ISO 179-1EA	KJ/m ²	>30
ESCR ³ , 10% Igepal	ASTM D 1693	h	>1000
ESCR ³ , 100% Igepal	ASTM D 1693	h	>1000

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

² Test temperature 23°C

³ Condition B

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 serviciotecnico@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.
- The content of this Product Data Sheet replaces the one issued previously.