


Datasheet
(February 2021)

High Density Polyethylene HDP0353

Description:

HDP0353 is a high density polyethylene copolymer developed for solid wall and corrugated piping applications.

Industrial Standard Compliance *ASTM D3350*: Cell Classification **PE 435620A**.

The resin HDP0353 meet the material requirements specifications *ASTM F2160*.

This resin is recommended for use in applications that are required to meet *AASHTO M294* specifications.

Applications:

Natural bimodal high density polyethylene copolymer , resin designed for solid wall and corrugated pipes of small and large diameter, and telecommunications conduits.

Processes:

Pipes extrusion.

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	ASTM D1238	g/10 min	0.35
Density	ASTM D792	g/cm ³	0.953

Typical Properties¹

Feature	Method	Units	Values
Tensile Strength at Yield	ASTM D638	MPa	26
Tensile Strength at Break	ASTM D638	MPa	38
Elongation at Break	ASTM D638	%	665
Flexural Modulus (Secant 1%)	ASTM D790	MPa	1275
Izod Impact Strength ³	ASTM D 256	J/m	165
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	70
Vicat Softening Point (10 N)	ASTM D1525	°C	125
Oxidative Induction Time (OIT, 200°C)	ASTM D 3895	min	45
Hardness Shore D	ASTM D 2240	-	65
Brittleness Temperature	ASTM D746	°C	<-75
ESCR (10% Igepal) ²	ASTM D1693	h	>1500
ESCR (100% Igepal) ²	ASTM D 1693	h	>1500

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

² Condition B.

³ Test temperature at 23°C.

Final Remarks

- 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 application, Braskem IDESA has developed resins well-tailored to meet specific requirements.
- In case of doubts regarding our product use for other applications, please contact our Braskem IDESA technical services serviciostecnicos@braskem.com
- For information about safety, handling, individual protection equipment, first aid disposal, consult the safety data sheet (SDS) or please contact our Braskem IDESA safety team product.safety@braskem.com CAS Number:2513-02-9
- The values reported in this document may change without Braskem IDESA communication.
- Braskem IDESA does not recommended the use of this product for the manufacture of packages, parts or any other used storage or contact with parenteral solution nor with the inside of the human body.
- The content of this product data sheet replaces the one issued previously.