Braskem

Datasheet
19/02/2026

High Density Polyethylene AC59

Description:

AC59 resin is a High Density Polyethylene, homopolymer, produced by solution process, designed for monofilament applications.

Additivation:

It contains antioxidant additives.

Applications:

Monofilament, Raschel, Nets, Raffia, Oriented Structures

Processes:

Extrusion of Monofilaments

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.75
Density	D 792	g/cm³	0.959

Typical Properties - Plaque[1]:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	28
Elongation at Yield (a)	D 638	%	11
Tensile Strength at Break (a)	D 638	MPa	35
Elongation at Break (a)	D 638	%	2036
Flexural Modulus - 2% Secant (b)	D 2240	MPa	1180
Hardness (c)	D 2240	-	59
Izod Impact Strength (b)	D 256	J/m	175
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	72
Vicat Softening Temperature at 10 N (b)	D 1525	°C	127

[1] Test specimens from compression molded plaque according to ASTM D4703. Plaque Thickness: a) 2mm. b) 3mm c) 6mm. NB = No break.

Final Remarks

1. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
2. The technical guidance eventually rendered to the Client/Purchaser of the Product by Braskem about the Product does not characterize a performance guarantee for the intended application, nor does it exempt the Client/Purchaser from the responsibilities described in item 1 above.
3. Any application information about the Product does not mean that Braskem knows or has validated the productive process of the Client/Purchaser or the adequacy of the Product for the intended application. All warranties of merchantability or fitness for a particular purpose, express or implied, are expressly excluded.
4. The information provided herein is of the date hereof and Braskem may update, revise or amend the information contained herein at any time and without previous notice. The Client/Purchaser shall consult www.braskem.com to verify any updates to this information.
5. For regulatory information associated with the Product and its source, please consult the Regulatory Information Sheet (RIS). For other requests, please contact Braskem's Technical Services area.
6. The information contained herein is provided based on the best of Braskem's knowledge, indicating typical values of the properties of the Product, and such values shall not be considered absolute or as a guarantee.