



Data Sheet

04/28/2020

High Density Polyethylene AC59**Description:**

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

Additives:

It contains antioxidant additives.

Applications:

Monofilament, Raschel, Nets, Raffia, Oriented Structures

Processes:

Extrusion of Monofilaments

Control Properties:

Characteristic	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.75
Density	D 792	g/cm ³	0.959

Typical Properties - Plaque¹:

Plaque Properties

Characteristic	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 - 1% Secant (b)	D 2240	MPa	1180
Shore D 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. The information presented in this Data Sheet reflects typical values obtained in our laboratories, but should not be considered as absolute or as warranted values. Only the properties and values mentioned on the Certificate of Quality are considered as guarantee of the product.
2. For regulatory information of the product, please refer to Regulatory Document or contact our Technical Assistance Area.
3. For information about safety, handling, individual protection, first aids and waste disposal, please refer to MSDS.
4. The mentioned values in this report can be changed at any moment without Braskem previous communication.