



Datasheet

Jul/2021

High Density Polyethylene SHE150**Description:**

SHE150 resin is a High Density Polyethylene that has been specially designed for monofilament extrusion process and provides a good balance of processability, spinnability, knotting strength as well as a very low gels amount. It can also be blended with LLDPE to improve blown film stiffness. It contains processing aid and antioxidant additives. The minimum biobased carbon content of this grade is 94%, determined according to ASTM D6866.

Applications:

Film, Ropes, Shading nets, Raschel

Processes:

Extrusion of Monofilaments

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	1
Density	D 792	g/cm ³	0.948

Typical Properties - Plaque¹:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	28
Tensile Strength at Break (a)	D 638	MPa	40
Flexural Modulus - 1% Secant (b)	D 2240	MPa	1280
Shore D Hardness (c)	D 2240	-	62
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	76
Vicat Softening Temperature at 10 N (b)	D 1525	°C	128

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.