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
Density	ISO 1183-1	g/cm³	0.948
Melt Flow Rate (190°C/2,16 kg)	ISO 1133	g/10 min	1

Typical Properties - Plaque[1]:

Plaque Properties

Feature	Method	Units	Values
Tensile Strenght at Yeld (b)	ISO 527	MPa	27
Elongation at Yeld (b)	ISO 527	%	10
Tensile Strenght at Break (b)	ISO 527	MPa	31
Elongation at Break (b)	ISO 527	%	2200
Flexural modulus Chord 0.05-0.25 % (b)	ISO 178	MPa	1071
Izod Impact Strength 23 °C (b)	ISO 180	kJ/m²	14
Vicat Softening Temperature at 10 N (a)	ISO 306	°C	129
Deflection Temperature Under Load at 0.455 MPa (b)	ISO 75	°C	63

1 Test specimens prepared from compression molded sheet made according to ISO 293. Plaque Thickness: a) 3 mm b) 4 mm c) 6 mm

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.