



Datasheet

Apr/2022

High Density Polyethylene ES6004**Description:**

ES6004 is a high density polyethylene, homopolymer designed for the blow-molding segment. ES6004 shows high stiffness properties, good impact resistance and good surface quality.

Applications:

toys, Dairy based products packaging, bottles for ethylic alcohol, Food packaging, Blow molding small volumes

Processes:

Injection blow molding, Extrusion Blow Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	0.35
Density	D 792	g/cm ³	0.960

Typical Properties:

Plaque Properties

Feature	Method	Units	Values
Melt Flow Rate (190°C/21,6kg)	ASTM D 1238	g/ 10 min	30
Tensile Strength at Yield (a)	D 638	MPa	30
Tensile Strength at Break (a)	D 638	MPa	35
Flexural Modulus - 1% Secant (b)	D 790	MPa	1450
Tensile Impact Strength ISO at 23 °C	ISO 8256	kJ/m ²	100
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	70

Typical properties correspond to average values obtained in our laboratories. Test specimens prepared from compression molded sheet made according to ASTM D 4703. Thickness of test piece: a) 2 mm; b) 3 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.