



Datasheet

26/12/2018

High Density Polyethylene IE59U3**Description:**

IE59U3 is a high density polyethylene, with narrow molecular weight distribution, for injection molding applications. It offers high stiffness and impact strength, associated with good processability and low warpage.

Additives:

Light Stabilizer.

Applications:

Boxes and Crates, Boxes for frozen products, Technical parts, Trash cans

Processes:

Injection Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	5.0
Density	D 792	g/cm ³	0.959

Typical Properties - Plaque¹:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	27
Tensile Strength at Break (a)	D 638	MPa	12
Flexural Modulus - 1% Secant (b)	D 2240	MPa	1250
Shore D Hardness (c)	D 2240	-	61
Izod Impact Strength (b)	D 256	J/m	90
Deflection Temperature under Load at 0.455 MPa (b)	D 648	°C	70
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.