Braskem

Datasheet
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High Density Polyethylene IA59

Description:

IA59 is a high density polyethylene, with narrow molecular weight distribution, homopolymer, for injection molding applications. It offers high stiffness, excellent impact strength, good processability and low warpage.

Applications:

Houseware, pallet, boxes and crates, Caps

Processes:

Injection molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/2.16kg)	D 1238	g/10 min	7.3
Density	D 792	g/cm³	0.960

Typical Properties - Plaque[1]:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	28
Tensile Strength at Break (a)	D 638	MPa	15
Flexural Modulus - 1% Secant (b)	ASTM D 790	MPa	1250
Hardness (c)	D 2240	-	60
Izod Impact Strength (b)	D 256	J/m	75
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. It is the sole responsibility of the Client/Purchaser of this Product to verify the suitability of this Product and its use for the intended use and to ensure compliance with legal and regulatory requirements applicable to the final product.
2. The technical guidance eventually rendered to the Client/Purchaser of the Product by Braskem about the Product does not characterize a performance guarantee for the intended application, nor does it exempt the Client/Purchaser from the responsibilities described in item 1 above.
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