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Datasheet
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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/cm³	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/m²	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

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