Braskem

Datasheet
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High Density Polyethylene HS4506

Description:

HS4506 is a High Density Polyethylene specially developed for the manufacturing of blow molding fuel tanks. It has high molar mass and shows excellent processability. Besides, it shows excellent tenacity, high resistance to stress cracking, and outstanding impact resistance.

Applications:

Cold start tanks, Mono and multilayer fuel tanks for cars, Sheets extrusion for pick up trunk protector

Processes:

Extrusion Blow Molding

Control Properties:

Feature	Method	Units	Values
Melt Flow Rate (190°C/21.6kg)	D 1238	g/10 min	5
Density	D 792	g/cm³	0.945

Typical Properties - Plaque[1]:

Plaque Properties

Feature	Method	Units	Values
Tensile Strength at Yield (a)	D 638	MPa	24
Elongation at Yield (a)	D 638	%	11
Tensile Strength at Break (a)	D 638	MPa	38
Elongation at Break (a)	D 638	%	1550
Flexural Modulus - 1% Secant (b)	D 2240	-	930
Hardness (c)	D 1693	h/F50	63
Izod Impact Strength (b)	D 256	J/m	NB
Environmental Stress Cracking Resistance - notch 0,3 mm; 50°C; 100% Igepal CO630 (a)	ASTM D 1693	h/F50	> 1000
Deflection Temperature under Load at 0.455 MPa (b)	D 648	ºC	62
Vicat Softening Temperature at 10 N (b)	D 1525	°C	125

[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.
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