

# Braskem PE HS4506

High Density Polyethylene

Braskem

Message:

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.

Application:  
Mono and multilayer fuel tanks for automobiles; small volume automotive reservoirs; sheet extrusion for pickup rear protectors.

Process:  
Blow Molding.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High molecular weight		
	Impact resistance, high		
	Workability, good		
Uses	Blow molding applications		
	Sheet		
	Fuel Tank		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Blow molding		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.945	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	5.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 2.00 mm, 100% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, molding	24.0	MPa	ASTM D638
Fracture, molding	38.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, molding	11	%	ASTM D638
Fracture, molding	1600	%	ASTM D638

Flexural Modulus - 1% Secant (Compression Molded)	930	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	700	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Compression Molded)	62.0	°C	ASTM D648
Vicat Softening Temperature	125	°C	ASTM D1525 <sup>1</sup>
NOTE			
1.	压力1 (10N)		

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