

High Density Polyethylene



HB09521

EVALENE[®] HB09521 provides outstanding durability for industrial blow molded container applications.

EVALENE[®] HB09521 is a high molecular weight, hexene copolymer resin designed specifically for medium size blow molded containers. The combination of various excellent properties enable this grade to meet a wide range of demanding applications that require very high Environmental Stress Crack Resistance (ESCR), superior drop impact resistance and good stacking performance.

FEATURES

- Excellent chemical and stress-crack resistance
- Excellent impact strength
- Good rigidity
- Good melt strength
- Meets Philippine FDA food contact requirements
- Halal-certified

TYPICAL APPLICATIONS

- Industrial chemical containers
- Jerry cans for cooking oil and water

Product Properties

Property	Test Condition	Method	Typical Value	Unit
Flow Index ¹	190 °C / 21.6 kg	ASTM D1238	9	g/10 min.
Melt Index ¹	190 °C / 2.16 kg	ASTM D 1238	0.075	g/10 min.
Density	23 °C	ASTM D792	0.952	g/cm ³
Tensile Strength at Yield ²	50 mm/min	ASTM D638	25	MPa
Tensile Strength at Break ²	50 mm/min	ASTM D638	17	MPa
Elongation at Yield ²	50 mm/min	ASTM D638	16	%
Elongation at Break ²	50 mm/min	ASTM D638	1134	%
Tensile Modulus ³	1% Secant, 5 mm/min	ASTM D638	1698	MPa
Flexural Modulus ³	1% Secant, 1.3 mm/min	ASTM D790	1133	MPa
Hardness, Shore D		ASTM D2240	62	-
Notched Izod Impact Strength	23 °C	ASTM D256	No Break	J/m
Charpy Impact Strength	23 °C	ASTM D6110	87*	J/m
Heat Deflection Temperature	0.455 MPa	ASTM D648	71	°C
ESCR, F ₅₀	Cond. B, 10% Igepal, 50 °C	ASTM D1693	>700	hours

1 Product is controlled by Flow Index. Melt Index is estimated for customer use.

2 Properties measured on ASTM Type IV compression molded samples.

3 Properties measured on ASTM Type I injection molded samples.

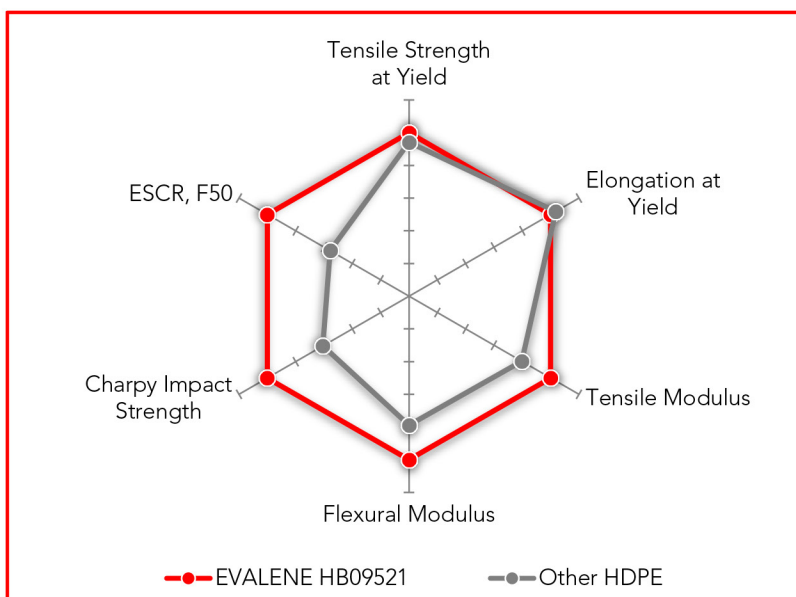
* Partial break

Typical Processing Conditions:

Extruder Temperature: 170 - 190 °C

Resin Property Performance: EVALENE® HB09521 and Other HDPE Medium Part Blow Molding Grade

EVALENE® HB09521 delivers superior combination of very high ESCR, toughness and stiffness which enable outstanding performance in broad range of industrial blow molding applications.



Disclaimer:

Information provided herein is given for general purposes only. It is the customer's sole responsibility to test the product and any information provided herein to determine whether they are suitable for the customer's purposes. JGSPC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS. Customers are strongly advised to review the applicable Material Safety Data Sheet before handling or using the products described herein.



Find out more about us at:
www.jgspetrochem.com