

**Provisional Product Data Sheet of EVALENE® HB09521
High Density Polyethylene Grade (Developmental)**

PROPERTY	Test Condition	Test Method	Typical Value	UNIT
Flow Index	190°C/ 21.6 kg	ASTM D1238	9.0	g/10 min
Density	23°C	ASTM D1505	952	kg/m ³
Tensile Strength at Yield*	50mm/min	ASTM D638	25	MPa
Elongation at Break*	50mm/min	ASTM D638	1382	%
Tensile Modulus**	1% Secant 5mm/min	ASTM D638	1794	MPa
Flexural Modulus**	1% Secant 1.3 mm/min	ASTM D790	879	MPa
Charpy Impact Strength	23°C	ASTM D6110	61***	J/m
ESCR, F ₅₀	Condition B, 10% Igepal	ASTM D1693	>1000	Hrs.

* Tensile properties tested using Type IV compression molded specimens

**Tensile and Flexural modulus tested using Type 1 injection molded specimens

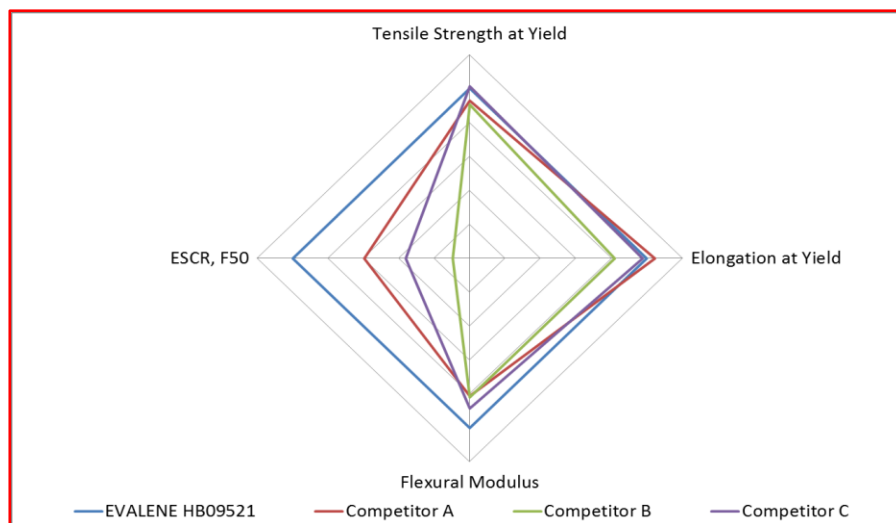
***Partial break

FEATURES:

- Good melt strength
- Good rigidity
- Excellent Environmental Stress Crack Resistance (ESCR)
- Excellent impact strength

TYPICAL APPLICATIONS:

- Bottles and jerry cans ranging from 10 to 50 liters capacity



EVALENE® HB09521 has better stiffness and environmental stress crack resistance (ESCR) compared to the alternative HDPE blow molding grades.

DISCLAIMER:

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