

## High Density Polyethylene

# HJ08601



EVALENE<sup>®</sup> HJ08601 High Density Polyethylene resin provides superior balance of toughness and moldability in injection molding applications.

**EVALENE<sup>®</sup> HJ08601** is a narrow molecular weight distribution grade intended for use in a broad spectrum of injection molding applications and designed to offer excellent impact strength, high stiffness and environmental stress crack resistance. This resin is UV stabilized for excellent outdoor performance and weatherability resulting in wide end-use possibilities. **EVALENE<sup>®</sup> HJ08601** is well suited for applications requiring high chemical and abrasive wear resistance.

### FEATURES

- Medium Flow
- Outstanding organoleptic property\*
- Very good environmental stress crack resistance (ESCR)
- Meets Philippine FDA food contact requirements
- Halal-certified

### TYPICAL APPLICATIONS

- Crates and Cases
- Caps for still and mineral water

\* Certification obtained from Qualtech (France)

## Product Properties

Property	Test Condition	Standard	Typical Value	Unit
Melt Index	190°C / 2.16 kg	ASTM D1238	8.0	g/10 min
Density	23 °C	ASTM D1505	0.960	g/cm <sup>3</sup>
Tensile Strength at Yield*	50 mm/min	ASTM D638	26	MPa
Elongation at Yield*	50 mm/min	ASTM D638	17	%
Tensile Strength at Break*	50 mm/min	ASTM D638	9	MPa
Elongation at Break*	50 mm/min	ASTM D638	880	%
Tensile Modulus*	1% Secant, 5 mm/min	ASTM D638	1373	MPa
Flexural Modulus	1% Secant 1.3 mm/min	ASTM D790A	787	MPa
Notched Izod Impact Strength	23°C	ASTM D256	85**	J/m
ESCR, F <sub>50</sub>	Condition B, 10% Igepal	ASTM D1693	3	hr
Hardness		ASTM D2240	59	Shore D
Mold Shrinkage	After 48 hours	JGSPC Method	1.2 - 1.6	%

\*Tensile properties tested using Type I injection molded specimens

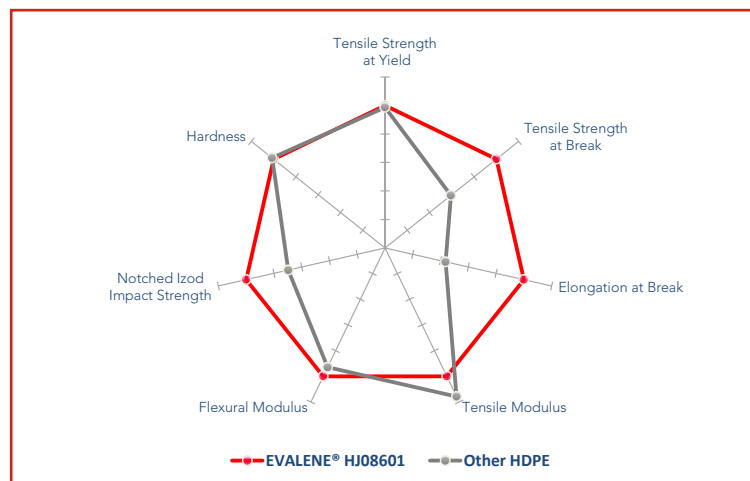
\*\*Partial Break

### Typical Processing Conditions :

Extruder temperature: 180 - 220 °C

Mold temperature: 20 - 40 °C

### Mechanical property performance: EVALENE<sup>®</sup> HJ08601 and other HDPE material in the market



The exceptionally high tensile and Izod impact strengths of **EVALENE<sup>®</sup> HJ08601** assure converters of the grade's superior product performance. **EVALENE<sup>®</sup> HJ08601** outperforms other HDPE grades in the market.

#### Disclaimer:

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