

## High Density Polyethylene

# HJ04601



EVALENE<sup>®</sup> HJ04601 High Density Polyethylene resin delivers exceptional durability in injection molding applications.

**EVALENE<sup>®</sup> HJ04601** has narrow molecular weight distribution and is specifically intended for use in injection molding applications requiring superior overall mechanical properties. It is designed to deliver an outstanding combination of long-term strength and durability. **EVALENE<sup>®</sup> HJ04601** is UV stabilized for excellent outdoor performance and weatherability resulting in wide end-use latitude.

### FEATURES

- Medium Flow
- Very high Izod impact strength
- High stiffness and rigidity
- High environmental stress crack resistance (ESCR)
- Meets Philippine FDA food contact requirements
- Halal-certified

### TYPICAL APPLICATIONS

- Pallets
- Dunnage trays
- Crates
- Industrial parts

## Product Properties

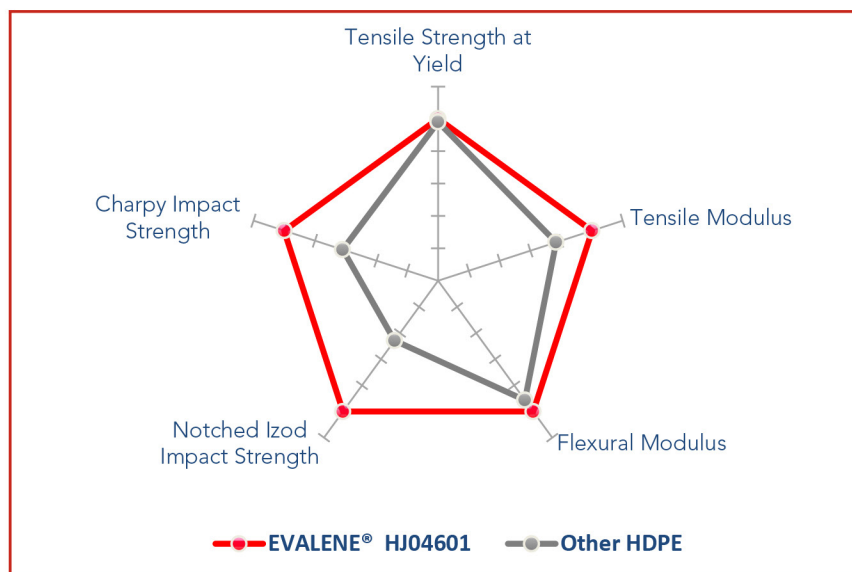
Property	Test Condition	Standard	Typical Value	Unit
Melt Index	190°C / 2.16 kg	ASTM D1238	4.0	g/10 min
Density	23 °C	ASTM D1505	0.960	g/cm <sup>3</sup>
Tensile Strength at Yield*	50 mm/min	ASTM D638	25	MPa
Elongation at Yield*	50 mm/min	ASTM D638	18	%
Tensile Modulus*	1% Secant, 5 mm/min	ASTM D638	1337	MPa
Flexural Modulus	1% Secant 1.3 mm/min	ASTM D790A	793	MPa
Notched Izod Impact Strength	23°C	ASTM D256	158**	J/m
Heat Deflection Temperature	0.455 MPa	ASTM D648	76	°C
ESCR, F <sub>50</sub>	Condition B, 10% Igepal	ASTM D1693	3.8	hr
Hardness		ASTM D2240	59	Shore D
Mold Shrinkage	After 48 hours	JGSPC Method	1.0- 1.7	%

\*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> HJ04601 and other HDPE material in the market



**EVALENE<sup>®</sup> HJ04601** provides much higher impact strength than the other HDPE grade, thus delivering superior durability and improved service life for a broad range of heavy-duty applications.

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