

High Density Polyethylene

HJ20571



EVALENE[®] HJ20571 High Density Polyethylene resin combines good toughness and high processability for injection molding applications.

EVALENE[®] HJ20571 is a fully formulated resin with narrow molecular weight distribution and is specifically designed to meet the performance requirements of a broad range of injection molding applications requiring an excellent combination of good impact strength/stiffness balance, stress-crack resistance and ease of processing.

FEATURES

- High Flow
- Balanced mechanical properties and processability
- Meets Philippine FDA food contact requirements
- Halal-certified

TYPICAL APPLICATIONS

- Housewares
- Caps
- Pails
- Toys

Product Properties

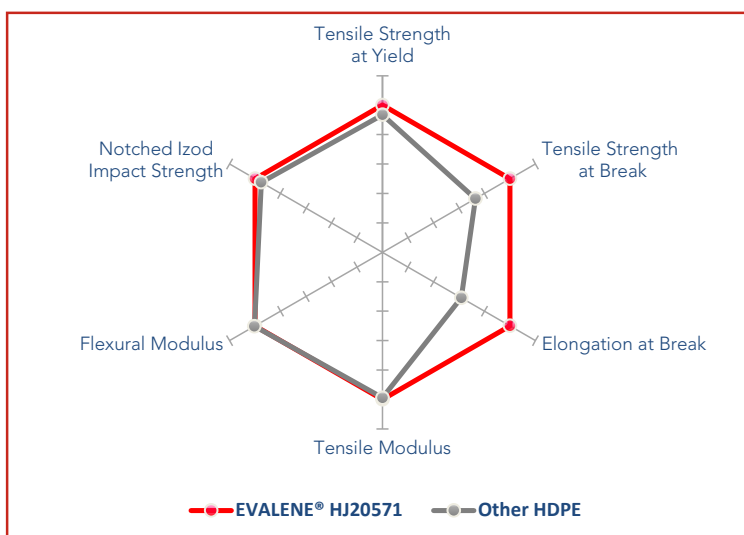
Property	Test Condition	Standard	Typical Value	Unit
Melt Index	190°C / 2.16 kg	ASTM D1238	20	g/10 min
Density	23°C	ASTM D1505	0.957	g/cm ³
Tensile Strength at Yield*	50 mm/min	ASTM D638	25	MPa
Elongation at Yield*	50 mm/min	ASTM D638	17	%
Tensile Strength at Break*	50 mm/min	ASTM D638	6	MPa
Elongation at Break*	50 mm/min	ASTM D638	481	%
Tensile Modulus*	1% Secant, 5 mm/min	ASTM D638	1241	MPa
Flexural Modulus	1% Secant 1.3 mm/min	ASTM D790A	723	MPa
Notched Izod Impact Strength	23°C	ASTM D256	32	J/m
ESCR, F ₅₀	Condition B, 10% Igepal	ASTM D1693	2	hr
Hardness		ASTM D2240	63	Shore D
Mold Shrinkage	After 48 hours	JGSPC Method	1.5 - 1.7	%

*Tensile properties tested using Type I injection molded specimens

Typical Processing Conditions:

Melt temperature: 170 - 220 °C
Mold temperature: 20 - 40 °C

Mechanical Property Performance: EVALENE® HJ20571 and other HDPE material in the market



EVALENE® HJ20571 delivers more balanced mechanical properties versus other high flow HDPE injection molding grades in the market.

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