

High Density Polyethylene

HJ20571



EVALENE[®] HJ20571 is a High Density Polyethylene grade with good processability and mechanical strength for injection molding applications.

The plastics housewares market offers a wide variety of products. EVALENE[®] HJ20571 is the solution for premium quality, performance-differentiated, cost-effective houseware products.

EVALENE[®] HJ20571 is a medium flow, hexene copolymer grade with narrow molecular weight distribution for enhanced mechanical properties. This grade is well suited for applications that require fast processing, good moldability, and an excellent balance of impact strength and stiffness. EVALENE[®] HJ20571 delivers robust performance across a wide range of use conditions.

FEATURES

- Balanced overall mechanical properties
- Excellent Izod impact strength
- High environmental stress crack resistance (ESCR)
- Good processability
- Good stacking strength
- Halal-certified
- Meets FDA Philippines' requirements for direct food contact

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		ASTM D1505	0.957	g/cm ³
Notched Izod Impact Strength	23°C	ASTM D256	30	J/m
ESCR, F ₅₀	Condition B, 10% Igepal	ASTM D1693	1.9	Hrs.
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	371	%
Tensile Modulus	1% Secant, 5 mm/min	ASTM D638	1233	MPa
Flexural Modulus	1% Secant 1.3 mm/min	ASTM D790A	717	MPa
Hardness, Shore D		ASTM D2240	62	

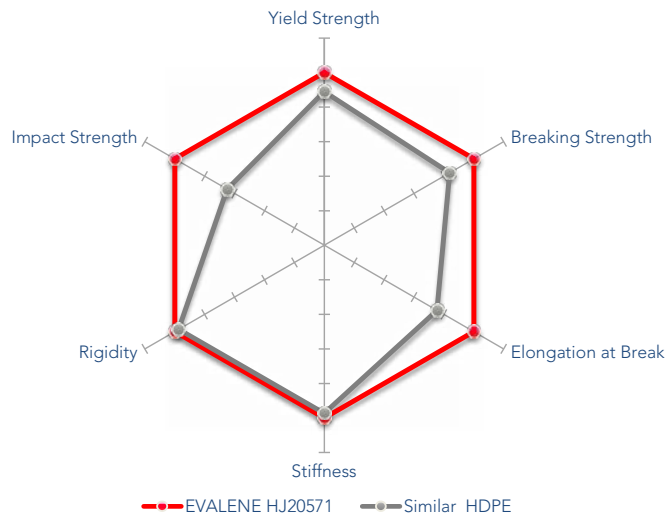
Tensile properties are tested using Type I injection molded specimens

Typical Processing Conditions:

Melt temperature: 170 - 220 °C

Mold temperature: 20 - 40 °C

Mechanical Property Performance: EVALENE[®] HJ20571 and similar HDPE material in the market



EVALENE[®] HJ20571 delivers exceptional mechanical properties unmatched by similar HDPE injection molding grades in the market.

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