EVALENE® HDPE PP LLDPE | PRODUCT DATA SHEET

High Density Polyethylene



HM10561

EVALENE® HM10561 is a High Density Polyethylene resin designed specifically for rope, net and related applications.

EVALENE® HM10561 offers advantages in net, rope and filament applications through improved stretchability resulting in higher stretch ratios and improved tenacities. As a versatile grade, it is also used in select flexible packaging and injection-molded applications.

FEATURES

- Good throughputs
- Excellent balance of tenacity and stretchability
- Meets Philippine FDA food contact requirements
- Halal-certified

TYPICAL APPLICATIONS

- Commercial and industrial ropes and nets (fishing net, agricultural net, mosquito net)
- Non-woven filament applications

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Product Properties

Property	Test Condition	Method	Typical Value	Unit
Melt Index	190°C / 2.16kg	ASTM D1238	1.0	g/10 min.
Density	23°C	ASTM D1505	956	kg/m^3
Tensile Strength at Yield*	50 mm/min	ASTM D638	26	MPa
Tensile Strength at Break*	50 mm/min	ASTM D638	20	MPa
Elongation at Yield*	50 mm/min	ASTM D638	21	%
Elongation at Break*	50 mm/min	ASTM D638	1119	%
Tensile Modulus	1% Secant, 5 mm/min	ASTM D638	1274	MPa
Flexural Modulus	1% Secant, 1.3 mm/min	ASTM D790	715	MPa

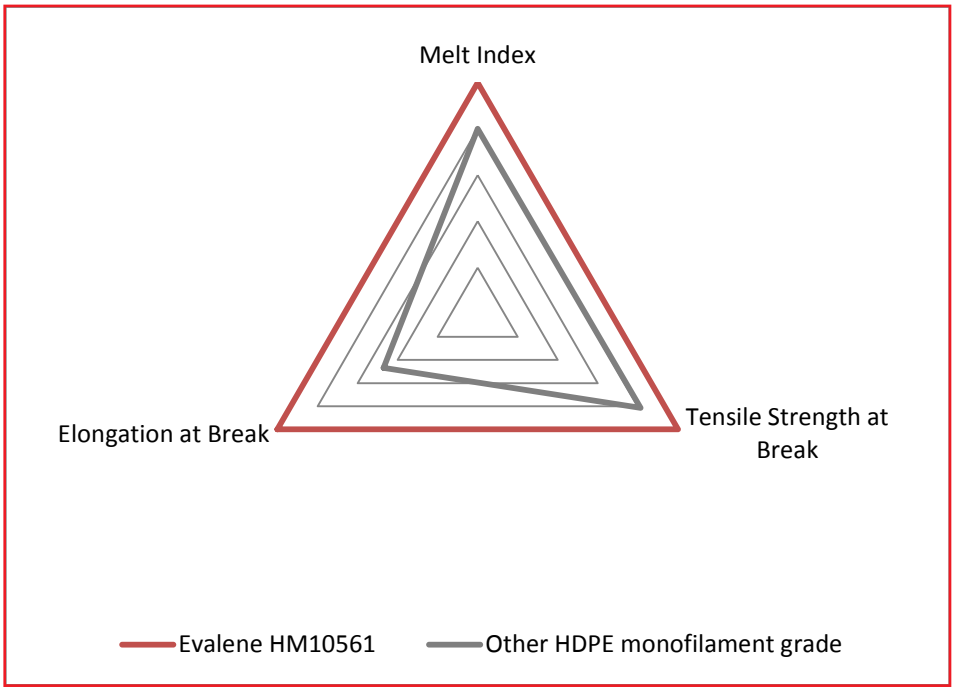
**Tensile properties tested using ASTM Type I Injection molded samples*

Typical Processing Conditions:
Extrusion temperature: 230 - 260 °C

EVALENE® HM10561's higher melt index results in (1) higher extruder throughputs for the same extrusion temperatures or (2) less energy requirement for the same extruder throughput.

EVALENE® HM10561's higher elongation and tensile strength at break allow for stretch ratios with corresponding higher tenacities.

Resin Property Comparison: EVALENE® HM10561 and other HDPE monofilament grade



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