

HDPE 8301

YUZEX 8301 is a high density polyethylene resin with narrow molecular weight distribution. So it shows excellent transparency and high stiffness, very good drawability. YUZEX 8301 is suitable for blending with PE products to improve stiffness and barrier properties. YUZEX 8301 gives minimum die drool and excellent thermal stability due to its excellent antioxidant.

Application / Use Case

MDO Film, Stand-up pouches, Multilayer packaging film, etc.

Properties

Transparency Extensibility, Processability

Specification

	Specification	Unit	Test Method
Density	0.955	g/cm ³	ASTM D1505
Melt Index(190°C, 2.16kg)	0.80	g/10min	ASTM D1238

Physical Properties

	Value(SI)	Value(English)	Test Method
Film Thickness	10 µm	0.4 mil	ASTM D374
Tensile Strength at Yield(MD)	30.4 MPa	4409 psi	ASTM D882
Tensile Strength at Yield(TD)	32.4 MPa	4700 psi	ASTM D882
Tensile Strength at Break(MD)	42.2 MPa	6120 psi	ASTM D882
Tensile Strength at Break(TD)	31.4 MPa	4550 psi	ASTM D882
Elongation at Break(MD)	460 %	460 %	ASTM D882
Elongation at Break(TD)	590 %	590 %	ASTM D882
Dart Impact Strength	< 66 g	< 66 g	ASTM D1709
Haze	40 %	40 %	ASTM D1003
Elmendorf Tear Strength(MD)	< 1 g/µm	< 1 g/µm	ASTM D1922

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Elmendorf Tear Strength(TD)	8 g/μm	8 g/μm	ASTM D1922
Hardness	D63 (Shore D)	D63 (Shore D)	ASTM D2240
Flexural Modulus	882.6 MPa	128010 psi	ASTM D790
Brittleness Temperature	< -80 °C	< -112 °F	ASTM D746
Softening Point(Vicat)	123 °C	253.4 °F	ASTM D1525

● **Notes:**

Film Extrusion Condition: Screw Diameter 50mmΦ / Die Diameter: 750mm / Die Gap: 1.0mm

Temp: Screw 170-190-200°C / Die 200-200°C

These are **typical properties** only, and are **not to be construed as specifications**. The physical properties are highly dependent on the manufacturing conditions. Thus, customers should confirm performances by their own tests.

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