

# HDPE

HDPE for Stretched Yarn (MI=0.9)

## ▶ Y910A

### ● Description

Y910A is a high-density polyethylene resins for stretched yarn applications. This grade is designed to be processed in conventional extrusion stretching equipment.

### ● Characteristics

Y910A offers excellent processability and thermal stability during extrusion process. Good stretchability during hot press stretching allows high production speed with this grade. Stretched yarn products made from this grade offer high tensile strength and abrasion resistance.

### ● Applications

- ▶ Flat Yarn (T-DIE)
- ▶ Mono-filaments for fishing net and Ropes
- ▶ Flat yarn woven bag, Tarpaulin, Sacks

### ● Major Property Requirements

- ▶ Low gel/fish-eye material
- ▶ Good processability
- ▶ Good stretchability at the stretching stage
- ▶ Good mechanical strength and abrasion resistance
- ▶ High environmental stress crack resistance

## ● Physical Properties

### ► Resin Properties

Properties	Test Method	Units	Y910A
Melt Index	ASTM D1238 190°C/2.16 kg	g/10min	0.9
Density	ASTM D1505	g/cm <sup>3</sup>	0.956
Tensile Strength	at Yield		250
	at Break	ASTM D638	350
Elongation at Break	ASTM D 638	%	>500
Flexural Stiffness	ASTM D 747	kg/cm <sup>2</sup>	9,000
Rockwell Hardness	ASTM D 785	R scale	50
Izod Impact Strength	ASTM D 256	kg.cm/cm	20
Vicat Softening Point	ASTM D 1525 1 kg	°C	125

Data performed by or on behalf of Hanwha Total

## ● **Food Contact Application**

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- ▶ There may be some limitation to apply Hanwha Total Y910A to the food packaging.
- ▶ Thus, the verification on the suitability is necessary. In case you might need additional information, please contact Hanwha Total Polymer Technical Service Team.

## ● **Contacts**

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### ▶ **Product Information & Technical Services**

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