



► Y910A

# **HDPE**

HDPE for Stretched Yarn (MI=0.9)

#### 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

## Food Contact Application

- 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.

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

Data performed by or on behalf of Hanwha Total