

# DX900

## Introduction

YUCLAIR DX900, medium density linear polyethylene, is an ethylene-octene copolymer for substituting XLPE. It offers excellent long term hydrostatic strength and brilliant pipe surface combined with good processability. It's very high Cl-resistance make it suitable for hot & cold water supply. It is classified as PE-RT Type II material based on ISO 24033.

Application / Use Case:

- PE-RT Type II

## Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
<b>Resin Properties</b>	Density	0.936 g/cm <sup>3</sup>	0.936 g/cm <sup>3</sup>	ASTM D1505
	Melt index (2.16 kg @190°C)	0.61 g/10min	0.61 g/10min	ASTM D1238
<b>Mechanical Properties<sup>1</sup></b>	Tensile strength at yield	2350 psi	16.2 MPa	ASTM D638 <sup>2</sup>
	Tensile strength at break	5830 psi	40.2 MPa	AT D638 <sup>2</sup>
	Elongation at break	800 %	800 %	ASTM D638 <sup>2</sup>
	Flexural modulus	73,960 psi	510 MPa	ASTM D790
	Hardness(Shore D)	58	58	ASTM D2240
	ESCR	>10,000hr	>10,000hr	ASTM D1693
<b>Thermal Properties</b>	Vicat softening temperature	253 °F	123 °C	ASTM D1525

<sup>1</sup> Evaluated using Injection molded sample

<sup>2</sup> Crosshead speed: 50 mm/min

### Notes

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

