

# JI720

## Introduction

YUCLAIR JI720, high density linear polyethylene, is an ethylene-butene copolymer for injection molding with narrow molecular weight distribution. It offers good processability combined high impact strength. The softness of this resin makes it particularly suitable for pail cap application.

Application / Use Case:

- Injection molding / Pail cap

## Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
<b>Resin Properties</b>	Density	0.946 g/cm <sup>3</sup>	0.946 g/cm <sup>3</sup>	ASTM D1505
	Melt index (2.16 kg @190°C)	7.4 g/10min	7.4 g/10min	ASTM D1238
<b>Mechanical Properties<sup>1</sup></b>	Tensile strength at yield	2700 psi	18.6 MPa	ASTM D638 <sup>2</sup>
	Tensile strength at break	1710 psi	11.8 MPa	ASTM D638 <sup>2</sup>
	Elongation at break	> 400 %	> 400 %	ASTM D638 <sup>2</sup>
	Izod impact strength (Notched, 23 °C)	43.6 ft.lb/in	78.4 J/m	ASTM D256
	Flexural modulus	113,790 psi	490 MPa	ASTM D790
	ESCR (Condition B)	5 hr	5 hr	ASTM D1693
<b>Thermal Properties</b>	Vicat softening temperature	250 °F	121 °C	ASTM D1525
	Brittleness temperature	< -112 °F	< -80 °C	ASTM D746

<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.

