

WE100

Introduction

YUCLAIR WE100, low density linear polyethylene, is an ethylene-butene copolymer. It offers a good processability and physical properties. WE100 contains metal deactivator and make these resin an ideal choice for wire & cable.

Application / Use Case:

- Wire & Cable

Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
Resin Properties	Density	0.919 g/cm ³	0.919 g/cm ³	ASTM D1505
	Melt index (2.16 kg @190°C)	2.8 g/10min	2.8 g/10min	ASTM D1238
Mechanical Properties¹	Tensile strength at yield	1420 psi	9.8 MPa	ASTM D638 ²
	Tensile strength at break	2990 psi	20.6 MPa	ASTM D638 ²
	Elongation at break	790 %	790 %	ASTM D638 ²
	Volume resistivity	> 1x10 ¹⁶ Ω.cm	> 1x10 ¹⁶ Ω.cm	ASTM D257
	ESCR	>1,000hr	>1,000hr	ASTM D1693
Thermal Properties	Vicat softening temperature	216 °F	102 °C	ASTM D1525
	Brittleness temperature	< -148 °F	< -100 °C	ASTM D746

¹ Evaluated using Injection molded sample

² 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.

