

DX800

Introduction

YUCLAIR DX800, 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 contains UV-stabilizer, for use in product requiring out-door weathering resistance

Application / Use Case:

- PE-RT Type I

Properties

		Nominal Value (English)	Nominal Value (SI)	Test Method
Resin Properties	Density	0.9335 g/cm ³	0.9335 g/cm ³	ASTM D1505
	Melt index (2.16 kg @190°C)	0.64 g/10min	0.64 g/10min	ASTM D1238
Mechanical Properties¹	Tensile strength at yield	2280 psi	15.7 MPa	ASTM D638 ²
	Tensile strength at break	5550 psi	38.2 MPa	AT D638 ²
	Elongation at break	800 %	800 %	ASTM D638 ²
	Flexural modulus	65,400 psi	450 MPa	ASTM D790
	Hardness(Shore D)	53	53	ASTM D2240
	ESCR	>10,000hr	>10,000hr	ASTM D1693
Thermal Properties	Vicat softening temperature	253 °F	123 °C	ASTM D1525

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.

