

## MDPE

### DX800

#### Description

YUCLAIR DX800 is controlled medium density ethylene-1-octene-copolymer polyethylene for substituting XLPE. YUCLAIR DX800 offers excellent long term hydrostatic strength and brilliant pipe surface combined with good processability. It contains UV-stabilizer, for use in product requiring out-door weathering resistance.

YUCLAIR DX800 complies with FDA regulations in 21 CFR177.1520

#### Application

Pipe / heating pipe, pipe for hot & cold water

#### Physical Properties

| Term/Item                           | Value  | Unit               | Test Method |
|-------------------------------------|--------|--------------------|-------------|
| Density                             | 0.9335 | g/cm <sup>3</sup>  | ASTM D1505  |
| Melt Index                          | 0.64   | g/10min            | ASTM D1238  |
| Softening Point(Vicat)              | 123    | °C                 | ASTM D1525  |
| Tensile Strength at Yield           | 165    | kg/cm <sup>2</sup> | ASTM D882   |
| Tensile Strength at Break           | 390    | kg/cm <sup>2</sup> | ASTM D882   |
| Elongation at Break                 | 800    | %                  | ASTM D882   |
| IZOD Impact Strength(Notched, 23°C) | NB     | kg-cm/cm           | ASTM D256   |
| ESCR                                | >10000 | hr                 | ASTM D1693  |
| Melting Point                       | 0.9335 | °C                 | ASTM D2117  |
| Flexural Modulus                    | 4600   | kg/cm <sup>2</sup> | ASTM D790   |
| Hardness                            | 53     | Shore D            | ASTM D2240  |