

HDPE

6100

Description

YUZEX 6100 is high density polyethylene designed for pressurized pipe and produced by bi-modal operation in dual slurry reactor. It is classified as PE100 class. It has excellent process ability in pipe extrusion and balanced physical properties.

Application

Pipe / Pressure Pipe (gas pipe)

Physical Properties

| Term/Item | Value | Unit | Test Method |
|---------------------------|--------|--------------------|-------------|
| Density | 0.952 | g/cm ³ | ASTM D1505 |
| Melt Index(5kg, 190°C) | 0.28 | g/10min | ASTM D1238 |
| Tensile Strength at Yield | 240 | kg/cm ² | ASTM D638 |
| Tensile Strength at Break | 420 | kg/cm ² | ASTM D638 |
| Elongation at Break | >700 | % | ASTM D638 |
| Flexural Modulus | 8500 | kg/cm ² | ASTM D790 |
| ESCR | >10000 | hr | ASTM D1693 |
| Brittleness Temperature | <-70 | °C | ASTM D746 |
| MWD | 20~25 | Mw/Mn | GPC |

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