

LUCENE™ SP988

Metallocene Polyethylene

Applications

- Hot & cold drinking water pipe, Floor heating, Radiator connection, AI composite pipe

Description

- LUCENE™ SP 988, LG PE-RT(Type II) is a high performance MDPE for hot and cold water pipe. It is developed by using a new LG catalyst technology.
- It has excellent stress crack resistance properties and Long Term Hydrostatic strength.
- LUCENE™ SP 988 Polyethylene Resin meets requirements of the FDA regulation 177.1520 and NSF/ANSI Standard 61 (Drinking Water System Components - Health Effect).

Typical properties

| Characteristics | Test Method | Unit | Value |
|---------------------------------|-------------|-------------------|------------------|
| Physical⁽¹⁾ | | | |
| MFR(190 °C, 2.16Kg) | ASTM D1238 | g/10min | 0.6 |
| Density | D1505 | g/cm ³ | 0.941 |
| Mechanical⁽²⁾ | | | |
| Tensile Strength at Yield | D638 | MPa | 20 |
| Tensile Strength at Break | D638 | MPa | 36 |
| Elongation at Break | D638 | % | 750 |
| Hardness (Shore D) | ISO 868 | - | 61 |
| Flexural Modulus | ISO 178 | MPa | 660 |
| Izod Impact Strength | D256 | J/m | Non Break |
| Thermal | | | |
| Melting Temperature | LG Method | °C | 128 |
| Vicat Softening Point | D1525 | °C | 125 |

(1) The properties data in this table are typical values, and not guaranteed specification.

(2) Typical resin property values are measured on a standard compression molded specimens

For additional sales, order and technical assistance

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Processing information

- **Equipment** : Single Screw Extruder(Conventional PE Screw)
- **Temperature** :

| Hopper zone | Cylinder (Barrel) | Head / Die zone |
|-------------|-------------------|-----------------|
| cooled | 180 ~ 230℃ | 220 ~ 230℃ |

- **Die to Calibration** : 2 ~ 10cm
- **Recommendation** : Screw C/R ; 2.2 ~ 2.5
Screw L/D ; 24 ~ 30
Die Gap ; Wall Thickness X 1.7 ~ 2.5
- **The actual extrusion conditions depend on the screw, die design, pipe diameter, wall thickness and throughput rate.**

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