LUCENE™ SP988

Metallocene Polyethylene

Applications

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

Description

- **LUCENE™ SP 988, LG PE-RT(TypeⅡ) 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℃,2.16Kg)	ASTM D1238	g/10min	**0.6**
Density	D1505	g/㎤	**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	℃	**128**
Vicat Softening Point	D1525	℃	**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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