

LUCENE™ SP380

High Density Polyethylene

Applications

- Rope, Nets, Tarpaulin, Woven bags(Inflation)

Description

- LUCENE™ SP380 is a high tenacity HDPE for monofilament and yarn productions. It was developed by using a new LG catalyst technology. The narrow molecular weight distribution allows to achieve high mechanical properties

Typical Properties

Characteristics	Test Method	Unit	Value
Physical⁽¹⁾			
MFR(190°C,2.16Kg)	ASTM D1238	g/10min	0.6
Density	D792	g/cm ³	0.952
Mechanical⁽²⁾			
Tensile Strength at Yield	D638	Mpa	30
Tensile Strength at Break	D638	Mpa	40
Elongation at Break	D638	%	>1000
Thermal			
Melting Temperature	LG Method	°C	134
Vicat Softening Point	D1525	°C	127

(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

Recommendable Fabricaton Conditons

Extruder Temperature	Cylinder Parts	°C	210 ~ 280
	Die Parts	°C	250 ~ 280
Stretching Ratio	Monofilament	-	10:1 ~ 13:1
	Yarn (Blow Film)	-	8:1 ~ 10:1
	Yarn (T-Die)	-	6:1 ~ 8:1

Characteristics of the Fiber

Tenacity at Break	Monofilament	g/denier	8.0 ~ 10.0
	Yarn	g/denier	4.5 ~ 7.5
Elongation at Break	Monofilament	%	10 ~ 15
	Yarn	%	14 ~ 18

* The properties data in this table are typical values, and not guaranteed specification

* Depending on the equipment and the processing conditions.

For additional sales, order and technical assistance

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Storage and handling Recommendations

LUCENE™ **SP380** is available in free-flowing pelletized form designed for use in conventional polymer fabrication systems. LUCENE™ **SP380** should be stored in dry condition at temperature below 50°C and protected from UV-light radiation. Storage under inappropriate conditions could initiate degradation, which results in negative influence on the processability and the properties of the transformed product.

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