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℃,2.16Kg)	ASTM D1238	g/10min	**0.6**
Density	D792	g/㎤	**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	℃	**134**
Vicat Softening Point	D1525	℃	**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	℃	**210 ~ 280**
	Die Parts	℃	**250 ~ 280**
Stretching Ratio	Monofilament	-	**10:1 ~ 13:1**
	Yarn (Blow Film)	-	**8:1 ~ 10:1**
	Yarn (T-Die)	-	**6:1 ~ 8:1**

For additional sales, order and technical assistance **Revised : 11/07/2014**

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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.**

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℃ 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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