



台灣塑膠工業股份有限公司聚烯事業部

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## Technical Data Sheet

### Taisox<sup>®</sup> 7001

#### 1. Product description

Taisox<sup>®</sup>7001 is a high molecular weight high density polyethylene, butene copolymer manufactured by the CSTR slurry process. It provides good ESCR and flowability, good chemical resistance.

Taisox<sup>®</sup>7001 is often used in large parts and chemical containers (20 to 150 liter).

#### 2. Typical properties

Properties	Units	Test Method	Typical Value
Melt Index MI <sub>2.16</sub>	g/10min	ASTM D1238	0.07
Melt Index MI <sub>21.6</sub> (HLMI)	g/10min	ASTM D1238	9.0
Density	g/cm <sup>3</sup>	ASTM D1505	0.949
<b>Thermal properties</b>			
Melting point	°C	FPC DSC	130
Brittleness point	°C	ASTM D746	<-70
Softening point	°C	ASTM D1525	126
<b>Mechanical properties</b>			
Tensile strength at yield	Kg/cm <sup>2</sup>	ASTM D638	250
Tensile strength at break	Kg/cm <sup>2</sup>	ASTM D638	350
Elongation at break	%	ASTM D638	600
Izod Impact Strength	Kg-cm/cm notch	ASTM D256	30
Hardness	Shore D	ASTM D2240	65
ESCR	Hours	ASTM D1693	>600

\* Data shown are average values and should not be examined for specifications

#### 3. Processability

Taisox<sup>®</sup>7001 HDPE Resin can be extruded at temperature profiles between 160 and 200°C.

Extruder temperature profiles set for reference :

Barrel zone & Adapter 160-190°C , Die 180-200°C

#### 4. Regulatory status

The grade meets the specification promulgated by the Food and Drug Administration of United States of America (FDA) for olefin polymers in 21 code of Federal Regulation Section 177.1520 and EU RoHS. Please contact your Formosa Plastics corporation representative for detailed information and other documents.

#### 5. Packing

FPC supplied in 25Kg/paper bag or 1000Kg/bulk bag.

#### 6. Storing

Resin must be stored at temperature under 40°C. The sun radiation, heat, humidity is prohibit.

The expiration date is 3 years.

Last Update: Apr. 20,2010