



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> 7301/7301U

### 1. Product description

Taisox<sup>®</sup>7301/7301U is a extra high molecular weight high density polyethylene, butene copolymer manufactured by the CSTR slurry process. It provides good balance of high stiffness, high impact, excellent ESCR and chemical resistance.

Taisox<sup>®</sup>7301/7301U is often used in 1000 liters IBC tank and fuel tank of car.

### 2. Typical properties

Properties	Units	Test Method	7301	7301U
Melt Index MI <sub>2.16</sub>	g/10min	ASTM D1238	0.03	0.03
Melt Index MI <sub>21.6</sub> (HLMI)	g/10min	ASTM D1238	6.0	6.0
Density	g/cm <sup>3</sup>	ASTM D1505	0.948	0.948
<b>Thermal properties</b>				
Melting point	°C	FPC DSC	129	129
Brittleness point	°C	ASTM D746	<-70	<-70
Softening point	°C	ASTM D1525	126	126
<b>Mechanical properties</b>				
Tensile strength at yield	Kg/cm <sup>2</sup>	ASTM D638	250	250
Tensile strength at break	Kg/cm <sup>2</sup>	ASTM D638	350	350
Elongation at break	%	ASTM D638	600	600
Izod Impact Strength	Kg-cm/cm notch	ASTM D256	30	30
Hardness	Shore D	ASTM D2240	65	65
ESCR	Hours	ASTM D1693	>1000	>1000
UV class	-	-	No UV	UV

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

### 3. Processability

Taisox<sup>®</sup>7301/7301U HDPE Resin can be extruded at temperature profiles between 180 and 220°C.

Extruder temperature profiles set for reference :

Barrel zone & Adapter 180-220°C , Die 200-220°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.

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