



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 8003

#### 1. Product description

8003 are an ethylene/butene copolymer. The trade name is TAISOX. This product manufactured by the CSTR slurry process. It provides high stiffness, good impact and processing, good chemical resistance.

8003 is suitable for packaging bottle, dairy bottle, medicine cans, Tool box.

#### 2. Typical properties

Properties	Units	Test Method	Typical Value
Melt Index MI <sub>2.16</sub>	g/10min	ASTM D1238	0.25
Density	g/cm <sup>3</sup>	ASTM D1505	0.958
<b>Thermal properties</b>			
Melting point	°C	FPC DSC	134
Brittleness point	°C	ASTM D746	<-70
Softening point	°C	ASTM D1525	127
<b>Mechanical properties</b>			
Tensile strength at yield	Kg/cm <sup>2</sup>	ASTM D638	300
Tensile strength at break	Kg/cm <sup>2</sup>	ASTM D638	320
Elongation at break	%	ASTM D638	1000
Tensile Impact Strength	kg · cm/cm <sup>2</sup>	ASTM D1822	300
Izod Impact Strength	Kg-cm/cm notch	ASTM D256	25
Hardness	Shore D	ASTM D2240	69
ESCR	Hours	ASTM D1693	30

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

#### 3. Processability

TAISOX 8003 HDPE Resin can be extruded at temperature profiles between 150 and 180°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 177.1350. 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::March 3, 2009