



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 8001BL-Black Pipe PE100

#### 1. Product description

8001BL is an ethylene/butene copolymer based High Density Polyethylene which is designed for the extrusion of various pressure pipes. The Taisox HDPE is produced by the CSTR slurry process.

According to ISO 12162:2009(E), the black 8001BL is classified PE 100 at 20°C and 50 years exceeds a MRS of 10Mpa. It provides good creep resistance, excellent ESCR, and high mechanical properties.

8001BL is recommended in the applications of potable water pipe, gas pipe, sewer & drain pipe, telecommunication system, industrial pipe, circular cages etc .

#### 2. Typical properties

Properties	Units	Test Method	Typical Value
Melt Index MI <sub>2.16</sub>	g/10min	ASTM D1238	0.05
Melt Index MI <sub>5</sub>	g/10min	ASTM D1238	0.23
Melt Index MI <sub>21.6</sub>	g/10min	ASTM D1238	7.0
Density	g/cm <sup>3</sup>	ASTM D1505	0.958
<b>Thermal properties</b>			
Melting point	°C	DSC	129
Softening point	°C	ASTM D1525	124
Brittleness point	°C	ASTM D746	<-70
<b>Mechanical properties</b>			
Tensile strength at yield	Kg/cm <sup>2</sup>	ASTM D638	240
Tensile strength at break	Kg/cm <sup>2</sup>	ASTM D638	360
Elongation at break	%	ASTM D638	850
Hardness	Shore D	ASTM D2240	64
MRS	Mpa	ISO 9080	10
Carbon Black Content	%	ISO6964	2.3
ESCR	Hr	ASTM D1693	>1000
Thermal stability(200°C)	min	ISO/TR 10837	>30

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

### 3.Processing guidelines

#### **Pre-drying**

**For normal extrusion equipments, we suggest preheating and drying 90- 100 °C for 1-2 hours before use.**

#### **Extrusion**

The actual extrusion conditions will depend on the type of equipment used, also depend on size and wall thickness of the pipe produced. TAISOX 8001BL can be extruded at temperature profiles between 185 and 215°C with a melt temperature between 200 and 220°C.

The following conditions may be used as a guideline:

Cylinder 185-210°C

Die 200-215°C

Melt 200-220°C

### 4.Regulatory status

Please contact your Formosa Plastics Corporation representative for detailed information and other documents.

### 5.Packing

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

### 6.Storage

Resin must be stored at temperature under 40°C . The sun's radiation, heat, and humidity are prohibit. The expiration date is 3 years.

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