



台灣塑膠工業股份有限公司聚烯事業部

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Formosa Plastics Corporation

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Technical Data Sheet

Taisox9000/ 9001

1. Product description

9000/9001 is High Density Polyethylene resin , an ethylene/butene copolymer. The trade name is TAISOX. This product manufactured by the CSTR slurry process.

9000/9001 possess the properties of high molecular weight and bimodal broad molecular weight distribution. 9001 has good mechanical strength and toughness, excellent processing stability; 9000 has good high-speed processing and film thickness distribution.

Typical applications of 9001 are shopping bag, roll bag, garbage bag, underground sewer pipe, 9000 suitable for super thin bag.

2. Typical properties

Properties	Units	Test Method	9000	9001
Melt Index MI _{2.16}	g/10min	ASTM D1238	0.07	0.05
Density	g/cm ³	ASTM D1505	0.950	0.950
Thermal properties				
Melting point	°C	DSC	130	130
Brittleness point	°C	ASTM D746	<-70	<-70
Softening point	°C	ASTM D1525	123	123
Mechanical properties				
Tensile strength at yield	Kg/cm ²	ASTM D638	260	260
Tensile strength at break	Kg/cm ²	ASTM D638	370	380
Elongation at break	%	ASTM D638	850	800
Tensile Impact Strength	kg · cm/cm ²	ASTM D1822	650	800
Izod Impact Strength	Kg-cm/cm notch	ASTM D256	22	22
Hardness	Shore D	ASTM D2240	65	65
ESCR	Hours	ASTM D1693	500	>1000

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

3. Processability

TAISOX9000/9001 can be extruded at temperature profiles between 180 and 200°C with a melt temperature between 190 and 210°C.

extruder temperature set for reference :

Cylinder 180-200 °C

Die 195-205°C

Melt 190-210°C

4.Regulatory status

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: 2010/11/11

