



台灣塑膠工業股份有限公司聚烯事業部

臺灣高雄縣林園鄉石化一路1號

Formosa Plastics Corporation

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Technical Data Sheet

Taisox 9003

1. Product description

9003 are an high-density ethylene/butene copolymer. The trade name is TAISOX. This product manufactured by the CSTR slurry process. It provides high stiffness, good ESCR and flowability , good chemical resistance.

9003 is suitable for Detergent and Bleach , Engine oil bottle, Shoe last, Tool box, Toys.

2. Typical properties

Properties	Units	Test Method	Typical Value
Melt Index MI _{2.16}	g/10min	ASTM D1238	0.25
Density	g/cm ³	ASTM D1505	0.952
Thermal properties			
Melting point	°C	FPC DSC	132
Brittleness point	°C	ASTM D746	<-70
Softening point	°C	ASTM D1525	124
Mechanical properties			
Tensile strength at yield	Kg/cm ²	ASTM D638	270
Tensile strength at break	Kg/cm ²	ASTM D638	300
Elongation at break	%	ASTM D638	1000
Tensile Impact Strength	kg · cm/cm ²	ASTM D1822	270
Izod Impact Strength	Kg-cm/cm notch	ASTM D256	13
Hardness	Shore D	ASTM D2240	66
ESCR	Hours	ASTM D1693	200

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

3. Processability

TAISOX 9003 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 177.1520 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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