# **TAISOX 9001**

### High Density Polyethylene Formosa Plastics Corporation

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### **Technical Data**

### Product Description

TAISOX 9001 is a High Density Polyethylene material. It is available in Asia Pacific, Europe, or North America.

Important attributes of TAISOX 9001 are:

- High Strength
- High Toughness

Typical applications include:

- Bags/Liners
- Film

• Plumbing/Piping/Potable Water

General			
Material Status	Commercial: Active		
Search for UL Yellow Card	Formosa Plastics Corporation		
Availability	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Europe</li> </ul>	<ul> <li>North America</li> </ul>
Features	<ul> <li>High Density</li> </ul>	<ul> <li>High Strength</li> </ul>	<ul> <li>Ultra High Toughness</li> </ul>
Uses	<ul> <li>Bags</li> </ul>	• Film	<ul> <li>Piping</li> </ul>
Forms	<ul> <li>Pellets</li> </ul>		

Physical	Nominal Value Unit	Test Method
Density	0.950 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.050 g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	1000 hr	ASTM D1693
Mechanical	Nominal Value Unit	Test Method
Tensile Strength		ASTM D638
Yield	25.5 MPa	
Break	37.3 MPa	
Tensile Elongation (Break)	800 %	ASTM D638
Impact	Nominal Value Unit	Test Method
Tensile Impact Strength	785 kJ/m²	ASTM D1822
Hardness	Nominal Value Unit	Test Method
Durometer Hardness (Shore D)	65	ASTM D2240
Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	-70.0 °C	ASTM D746
Vicat Softening Temperature	123 °C	ASTM D1525
Melting Temperature	130 °C	
Additional Information		
Notched Izod Impact Strength, ASTM D256: 22 kg-cm/cm <sup>2</sup>		
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Nominal Value Unit

180 to 220 °C

Blow Up Ratio: 3 to 6

#### Injection

Processing (Melt) Temp

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.



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#### Where to Buy

#### Supplier

Formosa Plastics Corporation Taipei, Taiwan Telephone: +886-2-2712-2211 Web: http://www.fpc.com.tw/

#### Distributor

Please contact the supplier to find a distributor for TAISOX 9001

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