

# 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:

- Good Toughness
- High Strength

Typical applications include:

- Bags/Liners
- Film
- Plumbing/Piping/Potable Water

### General

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

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/m <sup>2</sup>	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>  
Blow Up Ratio: 3 to 6

Injection	Nominal Value Unit
Processing (Melt) Temp	180 to 220 °C

### Notes

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

