

TAISOX 8003

High Density Polyethylene
Formosa Plastics Corporation

Message:

TAISOX 8003 is a high density polyethylene material. This product is available in North America, Europe or Asia Pacific region. The processing method is blow molding.

The main features of TAISOX 8003 are:

Hard

Good stiffness

chemical resistance

Typical application areas include:

Jars

bottle

container

Consumer goods

medical/health care

General Information			
Features	Rigidity, high		
	Rigid, good		
	High density		
	Good chemical resistance		
Uses	Tools/Parts Box		
	Bottle		
	Water tank		
	Toys		
	Drug		
Forms	Particle		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	30.0	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	69		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	30.4	MPa	ASTM D638
Fracture	37.3	MPa	ASTM D638
Tensile Elongation (Break)	1000	%	ASTM D638
Impact	Nominal Value	Unit	Test Method

Tensile Impact Strength	343	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525
Melting Temperature	134	°C	
Additional Information			
Notched Izod Impact Strength, ASTM D256: 25 kg-cm/cm ² Die Swell Ratio, FPC Method: 1.55Pich-off thickness, FPC Method: Good			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 - 180	°C	

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