

TAISOX 8003H

High Density Polyethylene

Formosa Plastics Corporation

Message:

TAISOX 8003H 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 8003H are:

Hard

Good stiffness

Impact resistance

chemical resistance

Typical application areas include:

Jars

bottle

container

Consumer goods

medical/health care

General Information			
Features	Rigidity, high Rigid, good High density Impact resistance, good 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)	0.30	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: 40 kg-cm/cm ² Die Swell Ratio, FPC Method: 1.48Pich-off thickness, FPC Method: Good			
Injection	Nominal Value	Unit	
Processing (Melt) Temp	160 - 180	°C	

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