

# TAISOX 8040

High Density Polyethylene  
Formosa Plastics Corporation

Message:

TAISOX 8040 is a high density polyethylene material. This product is available in North America, Europe or Asia Pacific region. The processing method is injection molding.

The main features of TAISOX 8040 are:

High resistance to environmental stress fracture (ESCR)

high strength

Good processability

Hard

Typical application areas include:

hat/cap/cork

bottle

General Information			
Features	Rigidity, high		
	High ESCR (Stress Cracking Resistance)		
	High density		
	High strength		
	Workability, good		
Uses	Shield		
	Bottle		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	67		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	26.5	MPa	ASTM D638
Fracture	25.5	MPa	ASTM D638
Tensile Elongation (Break)	1000	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	177	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ASTM D1525

Melting Temperature	135	°C
Additional Information		
Notched Izod Impact Strength, ASTM D256: 12 kg-cm/cm <sup>2</sup>		
Injection	Nominal Value	Unit
Processing (Melt) Temp	170 - 190	°C

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#### Recommended distributors for this material

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