

TAISOX 7001

High Density Polyethylene
Formosa Plastics Corporation

Message:

TAISOX 7001 is a high density polyethylene material. This product is available in North America, Europe or Asia Pacific.
The main features of TAISOX 7001 are:
High resistance to environmental stress fracture (ESCR)
Impact resistance
chemical resistance
The typical application field of TAISOX 7001 is: container

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High density		
	Impact resistance, high		
	Good melt strength		
	Good chemical resistance		
Uses	Industrial container		
	Drum		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.050	g/10 min	ASTM D1238
190°C/21.6 kg	8.0	g/10 min	ASTM D1238
190°C/5.0 kg	0.30	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	600	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	24.5	MPa	ASTM D638
Fracture	37.3	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	785	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ASTM D1525
Melting Temperature	131	°C	

Additional Information

Notched Izod Impact Strength, ASTM D256: 40 kg-cm/cm²Die Swell Ratio, FPC Method: 1.75Pich-off thickness, FPC Method: Excellent

Injection	Nominal Value	Unit
Processing (Melt) Temp	190 - 230	°C

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