

TAISOX 9002

High Density Polyethylene
Formosa Plastics Corporation

Message:

TAISOX 9002 is a high density polyethylene material. This product is available in North America, Europe or Asia Pacific. The processing method is extrusion.

The main features of TAISOX 9002 are:

- High resistance to environmental stress fracture (ESCR)
- Good toughness
- Impact resistance
- chemical resistance

The typical application areas of TAISOX 9002 are: coating applications

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	High density		
	Impact resistance, good		
	Good strength		
	Good chemical resistance		
	Good toughness		
Uses	Pipeline coating		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.948	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.15	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance	1000	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	32.4	MPa	ASTM D638
Tensile Elongation (Break)	800	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	539	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
Melting Temperature	129	°C	
Additional Information			

Notched Izod Impact Strength, ASTM D256: 18 kg-cm/cm²

Injection	Nominal Value	Unit
Processing (Melt) Temp	180 - 210	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

