

Tritan™ WX500

Copolyester
Eastman Chemical Company

Message:

Eastman Tritan™ WX500 is a resin specifically developed for blow molded bottles. Extremely high melt strength makes the resin an excellent choice when manufacturing large bottles. This new-generation copolyester most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. Eastman Tritan™ WX500 copolyester may be used in repeated use food contact articles under United States Food and Drug Administration (FDA) regulations.

General Information	
Features	Impact resistance, good
	Workability, good
	Good melt strength
	Good chemical resistance
	Heat resistance, high
	Definition, high
	Good toughness
	Compliance of Food Exposure
	Hydrolysis stability
Uses	Bottle
	Container
Agency Ratings	FDA Food Exposure, Not Rated
Processing Method	Injection Stretch Blow Molding
	Blow molding
	Extrusion blow molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1610	MPa	ASTM D638
23°C	1570	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	45.0	MPa	ASTM D638, ISO 527-2
Fracture, 23°C	52.0	MPa	ASTM D638
Fracture, 23°C	51.0	MPa	ISO 527-2

Tensile Elongation			ASTM D638, ISO 527-2
Yield, 23°C	7.0	%	ASTM D638, ISO 527-2
Fracture, 23°C	140	%	ASTM D638, ISO 527-2
Flexural Modulus			
23°C	1520	MPa	ASTM D790
23°C	1490	MPa	ISO 178
Flexural Stress			
23°C	60.0	MPa	ISO 178
Yield, 23°C	64.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	840	J/m	ASTM D256
-40°C	12	kJ/m ²	ISO 180
23°C	78	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	67.0	J	ASTM D3763
0°C, Energy at Peak Load	65.0	J	ASTM D3763
23°C, Energy at Peak Load	62.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	101	°C	ASTM D648
1.8 MPa, not annealed	85.0	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	91.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	88.0	°C	
Drying Time	4.0 - 6.0	hr	
Processing (Melt) Temp	260 - 280	°C	
Mold Temperature	40.0 - 65.0	°C	
Injection instructions			
ISBM Blow Mold Temperature: 35 to 55°C			
Extrusion	Nominal Value	Unit	
Drying Temperature	88.0	°C	
Drying Time	4.0 - 6.0	hr	
Melt Temperature	235 - 255	°C	
Extrusion instructions			
EBM Blow Mold Temperature: 15 to 50°C			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT