Tritan™ LX500

Thermoplastic Polyester

Eastman Chemical Company

Message:

Eastman Tritan™ LX500 is an amorphous copolyester specifically developed for use in blow molding applications for the cosmetic, fragrance, and personal care markets. Its most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. In addition, this new generation copolyester offers excellent appearance and clarity.

General Information			
Features	Workability, good		
	Fast molding cycle		
	Good chemical resistance		
	Definition, high		
	Good toughness		
	Hydrolysis stability		
	amorphous		
	Excellent appearance		
Processing Method	Blow molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.60	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
--	1610	MPa	ASTM D638
--	1570	MPa	ISO 527-2
Tensile Strength			
Yield	44.8	MPa	ASTM D638
Yield	45.0	MPa	ISO 527-2
Fracture	52.4	MPa	ASTM D638
Fracture	51.0	MPa	ISO 527-2
Tensile Elongation			ASTM D638, ISO 527-2
Yield	7.0	%	ASTM D638, ISO 527-2
Fracture	140	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	1520	MPa	ASTM D790
--	1490	MPa	ISO 178
Flexural Stress			
--	60.0	MPa	ISO 178

Yield	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/m²	ISO 180
23°C	78	kJ/m²	ISO 180
Unnotched Izod Impact (23°C)	No Break		ASTM D4812
Instrumented Dart Impact			ASTM D3763
-40°C	67.0	J	ASTM D3763
0°C	65.0	J	ASTM D3763
23°C	62.0	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	101	°C	ISO 75-2/B
1.8 MPa, not annealed	85.0	°C	ISO 75-2/A
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (Total)	91.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Additional Information			
EBM Processing Melt Temperature: 235 to 255°CEBM Blow Mold Temperature: 15 to 50°CISBM Processing Melt Temperature: 260 to 280°CISBM Injection Mold Temperature: 40 to 65°CISBM Blow Mold Temperature: 35 to 55°C			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	88.0	°C	
Drying Time	4.0 - 6.0	hr	

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