

# Tritan™ LX101

Copolyester  
Eastman Chemical Company

## Message:

Eastman Tritan™ LX101 is an amorphous copolyester with excellent appearance and clarity. Tritan™ LX101 contains a mold release derived from vegetable based sources. Its most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. Tritan™ LX101 was developed for the cosmetic, fragrance, and personal care markets. Tritan™ LX101 can easily be converted into articles for application in Consumer and Personal Care markets by injection molding, extrusion blow molding, and injection blow molding.

General Information			
Additive	Mold Release		
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Impact Resistance		
	Hydrolytically Stable		
	Medium Heat Resistance		
Uses	Cosmetic Packaging		
	Packaging		
Processing Method	Extrusion Blow Molding		
	Injection Blow Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1550	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	43.0	MPa	
Break, 23°C	53.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	6.0	%	
Break, 23°C	210	%	
Flexural Modulus (23°C)	1550	MPa	ASTM D790

Flexural Strength (Yield, 23°C)	62.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	110	J/m	
23°C	980	J/m	
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C	66.0	J	
23°C	61.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	99.0	°C	
1.8 MPa, Unannealed	85.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	< 90.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	88.0	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	260 to 282	°C	
Mold Temperature	38.0 to 66.0	°C	

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