

# Product Data Sheet

## Eastman Tritan™ Copolyester LX151HF

### Application/Uses

- Cosmetics hot-fill packaging
- Cosmetics/personal care packaging
- Fragrance packaging

### Key Attributes

- Ease of processing
- Excellent clarity
- Fast drying times
- Good chemical resistance
- Good heat resistance
- Improved flowability
- Outstanding impact resistance
- Quick cycle times

### Product Description

Eastman Tritan™ LX151HF is a high flow grade of an amorphous copolyester with excellent appearance and clarity. Eastman Tritan™ LX151HF has viscosity reductions of 40-50% relative to standard grades of Eastman Tritan™. Eastman Tritan™ LX151HF contains a mold release derived from vegetable based sources. Its most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. Tritan™ LX151HF was developed for the cosmetic, fragrance, and personal care markets. Tritan™ LX151HF can easily be converted into articles for application in consumer and personal care markets by injection molding, extrusion blow molding, and injection blow molding.

### Typical Properties (Preliminary)

Property <sup>a</sup>	Test <sup>b</sup> Method	Typical Value, Units <sup>c</sup>
<b>General Properties</b>		
Specific Gravity	D 792	1.18
Mold Shrinkage	D 955	0.005-0.007 mm/mm (0.005-0.007 in./in.)
<b>Mechanical Properties</b>		
Tensile Stress @ Yield	D 638	43 MPa (6200 psi)
Tensile Stress @ Break	D 638	52 MPa (7500 psi)
Elongation @ Yield	D 638	7%
Elongation @ Break	D 638	210%
Tensile Modulus	D 638	1575 MPa (2.28 x 10 <sup>5</sup> psi )
Flexural Modulus	D 790	1575 MPa (2.28 x 10 <sup>5</sup> psi )
Flexural Yield Strength	D 790	64 MPa (9300 psi)
Rockwell Hardness, R Scale	D 785	111

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**Izod Impact Strength, Notched**

@ 23°C (73°F)	D 256	860 J/m (16.1 ft·lbf/in.)
@ -40°C (-40°F)	D 256	110 J/m (2.1 ft·lbf/in.)

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**Impact Strength, Unnotched**

@ 23°C (73°F)	D 4812	NB
@ -40°C (-40°F)	D 4812	NB

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**Impact Resistance (Puncture), Energy @ Max. Load**

@ 23°C (73°F)	D 3763	53 J (39 ft·lbf)
@ -40°C (-40°F)	D 3763	57 J (42 ft·lbf)

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**Thermal Properties****Deflection Temperature**

@ 0.455 MPa (66 psi)	D 648	94°C (201°F)
@ 1.82 MPa (264 psi)	D 648	81°C (178°F)

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**Optical Properties**

Total Transmittance	D 1003	91%
Haze	D 1003	<1%

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**Typical Processing Conditions**

Drying Temperature	88°C (190°F)
Drying Time	4-6 hrs
Processing Melt Temperature	260-282°C (500-540°F)
Mold Temperature	38-66°C (100-150°F)

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<sup>a</sup> Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

<sup>b</sup> Unless noted otherwise, the test method is ASTM.

<sup>c</sup> Units are in SI or US customary units.

**Comments**

Properties reported here are based on limited testing. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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