

Technical Data Sheet

Eastman Tritan™ Copolyester LX201

Key Attributes

- Ease of processing
- Excellent clarity
- Fast drying times
- Good chemical resistance
- Good heat resistance
- Outstanding impact resistance

Product Description

Eastman Tritan™ LX201 is an amorphous copolyester with excellent appearance and clarity. Tritan™ LX201 contains a mold release derived from vegetable based sources. Its most outstanding features are excellent toughness, hydrolytic stability, and heat and chemical resistance. Tritan™ LX201 was developed for the cosmetic, fragrance, and personal care markets. Tritan™ LX201 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

Property ^a	Test Method ^b	Typical Value, Units ^c
General Properties		
Specific Gravity	D 792	1.17
Mold Shrinkage	D 955	0.005-0.007 mm/mm (0.005-0.007 in./in.)
Mechanical Properties		
Tensile Stress @ Yield	D 638	44 MPa (6400 psi)
Tensile Stress @ Break	D 638	53 MPa (7700 psi)
Elongation @ Yield	D 638	7 %
Elongation @ Break	D 638	140 %
Tensile Modulus	D 638	1585 MPa (2.28 x 10 ³ psi)
Flexural Modulus	D 790	1585 MPa (2.28 x 10 ³ psi)
Flexural Yield Strength	D 790	66 MPa (9600 psi)
Rockwell Hardness, R Scale	D 785	115
Izod Impact Strength, Notched		
@ 23°C (73°F)	D 256	650 J/m (12.2 ft·lbf/in.)
@ -40°C (-40°F)	D 256	126 J/m (2.4 ft·lbf/in.)
Impact Strength, Unnotched		
@ 23°C (73°F)	D 4812	NB
@ -40°C (-40°F)	D 4812	NB
Impact Resistance (Puncture), Energy @ Max. Load		
@ 23°C (73°F)	D 3763	59 J (43 ft·lbf)
@ -40°C (-40°F)	D 3763	63 J (46 ft·lbf)
Optical Properties		
Total Transmittance	D 1003	92 %
Haze	D 1003	<1 %
Thermal Properties		
Deflection Temperature		
@ 0.455 MPa (66 psi)	D 648	109 °C (228 °F)
@ 1.82 MPa (264 psi)	D 648	92 °C (198 °F)
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)

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

^b Unless noted otherwise, the test method is ASTM.

^c 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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