

## Eastman Tritan LX201 Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

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. 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 Outstanding impact resistance Typical properties as reported are preliminary. Information was provided by Eastman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Tritan-LX201-Copolyester.php](http://www.lookpolymers.com/polymer_Eastman-Tritan-LX201-Copolyester.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.17 g/cc             | 1.17 g/cc             | ASTM D792 |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm | 0.0050 - 0.0070 in/in | ASTM D955 |

| Mechanical Properties     | Metric                | English               | Comments   |
|---------------------------|-----------------------|-----------------------|------------|
| Hardness, Rockwell R      | 115                   | 115                   | ASTM D785  |
| Tensile Strength at Break | 53.0 MPa              | 7690 psi              | ASTM D638  |
| Tensile Strength, Yield   | 44.0 MPa              | 6380 psi              | ASTM D638  |
| Elongation at Break       | 140 %                 | 140 %                 | ASTM D638  |
| Elongation at Yield       | 7.0 %                 | 7.0 %                 | ASTM D638  |
| Tensile Modulus           | 1.585 GPa             | 229.9 ksi             | ASTM D638  |
| Flexural Yield Strength   | 66.0 MPa              | 9570 psi              | ASTM D790  |
| Flexural Modulus          | 1.585 GPa             | 229.9 ksi             | ASTM D790  |
| Izod Impact, Notched      | 1.26 J/cm             | 2.36 ft-lb/in         | ASTM D256  |
|                           | @Temperature -40.0 °C | @Temperature -40.0 °F |            |
|                           | 6.50 J/cm             | 12.2 ft-lb/in         | ASTM D256  |
|                           | @Temperature 23.0 °C  | @Temperature 73.4 °F  |            |
| Izod Impact, Unnotched    | NB                    | NB                    | ASTM D4812 |
|                           | @Temperature 23.0 °C  | @Temperature 73.4 °F  |            |
|                           | NB                    | NB                    |            |

| Mechanical Properties | Metric                | English               | ASTM D4812<br>Comments         |
|-----------------------|-----------------------|-----------------------|--------------------------------|
| Puncture Energy       | 59.0 J                | 43.5 ft-lb            | Energy @ Max. Load; ASTM D3763 |
|                       | @Temperature 23.0 °C  | @Temperature 73.4 °F  |                                |
|                       | 63.0 J                | 46.5 ft-lb            | Energy @ Max. Load; ASTM D3763 |
|                       | @Temperature -40.0 °C | @Temperature -40.0 °F |                                |

| Thermal Properties                          | Metric  | English | Comments  |
|---------------------------------------------|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 109 °C  | 228 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 92.0 °C | 198 °F  | ASTM D648 |

| Optical Properties    | Metric   | English  | Comments   |
|-----------------------|----------|----------|------------|
| Haze                  | <= 1.0 % | <= 1.0 % | ASTM D1003 |
| Transmission, Visible | 92 %     | 92 %     | ASTM D1003 |

| Processing Properties  | Metric         | English      | Comments |
|------------------------|----------------|--------------|----------|
| Processing Temperature | 260 - 282 °C   | 500 - 540 °F |          |
| Mold Temperature       | 38.0 - 66.0 °C | 100 - 151 °F |          |
| Drying Temperature     | 88.0 °C        | 190 °F       |          |
| Dry Time               | 4 - 6 hour     | 4 - 6 hour   |          |

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