

## Eastman Tritan TX1501HF Copolyester

Category : Polymer , Thermoplastic , Polyester, TP

### Material Notes:

Eastman Tritan TX1501HF is a high flow grade of Eastman Tritan. Eastman Tritan TX1501HF has viscosity reductions of 40-50% relative to Eastman Tritan copolyester TX1001. Eastman Tritan copolyester TX1501HF contains a mold release derived from vegetable based sources. Other outstanding features include good toughness, hydrolytic stability, and heat and chemical resistance. Application/Uses Appliances Consumer goods Durable goods Housewares Key Attributes Ease of processing Excellent clarity Excellent hydrolytic stability Fast drying times Good chemical resistance Good flowability Good heat resistance Outstanding impact resistance Quick cycle times Typical properties as listed are from preliminary data. Information was provided by Eastman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Tritan-TX1501HF-Copolyester.php](http://www.lookpolymers.com/polymer_Eastman-Tritan-TX1501HF-Copolyester.php)

| Physical Properties   | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Specific Gravity      | 1.18 g/cc             | 1.18 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      | 111       | 111           | ASTM D785  |
| Tensile Strength at Break | 52.0 MPa  | 7540 psi      | ASTM D638  |
| Tensile Strength, Yield   | 43.0 MPa  | 6240 psi      | ASTM D638  |
| Elongation at Break       | 210 %     | 210 %         | ASTM D638  |
| Elongation at Yield       | 7.0 %     | 7.0 %         | ASTM D638  |
| Tensile Modulus           | 1.575 GPa | 228.4 ksi     | ASTM D638  |
| Flexural Yield Strength   | 64.0 MPa  | 9280 psi      | ASTM D790  |
| Flexural Modulus          | 1.575 GPa | 228.4 ksi     | ASTM D790  |
| Izod Impact, Notched      | 8.60 J/cm | 16.1 ft-lb/in | ASTM D256  |
| Izod Impact, Unnotched    | NB        | NB            | ASTM D4812 |

| Thermal Properties                          | Metric  | English | Comments  |
|---|---------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 94.0 °C | 201 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 81.0 °C | 178 °F  | ASTM D648 |

| Optical Properties    | Metric   | English  | Comments   |
|-----------------------|----------|----------|------------|
| Haze                  | <= 1.0 % | <= 1.0 % | ASTM D1003 |
| Transmission, Visible | 91 %     | 91 %     | ASTM D1003 |

| Compliance Properties | Metric | English | Comments   |
|-----------------------|--------|---------|--|
| FDA                   | Yes    | Yes     | Repeated use food contact articles   |
| NSF                   | Yes    | Yes     | Food equipment materials & Drinking water system components - health effects; NSF/ANSI Standards 51 & 61 |

| 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   |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China