

## Eastman Tenite 105-33 Cellulose Acetate (discontinued \*\*)

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Cellulosic , Cellulose Acetate, Molded

### Material Notes:

33% Plasticized ISO data as provided by the manufacturer, Eastman Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eastman-Tenite-105-33-Cellulose-Acetate-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Eastman-Tenite-105-33-Cellulose-Acetate-nbspdiscontinued-.php)

| Physical Properties         | Metric                | English                   | Comments |
|-----------------------------|-----------------------|---------------------------|----------|
| Density                     | 1.26 g/cc             | 0.0455 lb/in <sup>3</sup> |          |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0060 cm/cm | 0.0020 - 0.0060 in/in     |          |
|                             | @Thickness 3.20 mm    | @Thickness 0.126 in       |          |

| Mechanical Properties   | Metric                  | English                    | Comments  |
|-------------------------|-------------------------|----------------------------|-----------|
| Tensile Strength, Yield | 29.0 MPa                | 4210 psi                   | 50 mm/min |
| Elongation at Break     | 19 %                    | 19 %                       |           |
| Elongation at Yield     | 3.3 %                   | 3.3 %                      |           |
| Tensile Modulus         | 1.62 GPa                | 235 ksi                    | 1mm/min   |
| Charpy Impact Unnotched | NB                      | NB                         |           |
|                         | NB                      | NB                         |           |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |           |
| Charpy Impact, Notched  | 1.59 J/cm <sup>2</sup>  | 7.57 ft-lb/in <sup>2</sup> |           |
|                         | 0.490 J/cm <sup>2</sup> | 2.33 ft-lb/in <sup>2</sup> |           |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |           |

| Thermal Properties                          | Metric               | English              | Comments |
|---------------------------------------------|----------------------|----------------------|----------|
| CTE, linear, Parallel to Flow               | 106 µm/m-°C          | 58.9 µin/in-°F       |          |
|                                             | @Temperature 20.0 °C | @Temperature 68.0 °F |          |
| CTE, linear, Transverse to Flow             | 146 µm/m-°C          | 81.1 µin/in-°F       |          |
|                                             | @Temperature 20.0 °C | @Temperature 68.0 °F |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 86.0 °C              | 187 °F               |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 74.0 °C              | 165 °F               |          |

| Vicat Softening Point<br>Thermal Properties | 80.0 °C<br>Metric | 176 °F<br>English | Comments |
|---------------------------------------------|-------------------|-------------------|----------|
| Glass Transition Temp, Tg                   | 96.0 °C           | 205 °F            |          |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 205 - 220 °C | 401 - 428 °F |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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