

## Ineos ABS Triax® 1180 ABS + Polyamide Blend (Conditioned) (discontinued \*\*)

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend , Nylon

### Material Notes:

Key Features: Unfilled High impact or high impact modified Suitable processing methods: Injection molding Information provided by Bayer Polymers. LANXESS was spun-off from Bayer in early 2005. Business renamed Ineos ABS after INEOS acquires a majority shareholding under a JV with Lanxess in 2007. Subsequently Ineos acquired 100% of Ineos ABS. This product is no longer listed as a standard NAFTA product.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Triax-1180-ABS-Polyamide-Blend-Conditioned-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ineos-ABS-Triax-1180-ABS-Polyamide-Blend-Conditioned-nbspdiscontinued-.php)

| Physical Properties                | Metric  | English   | Comments                 |
|------------------------------------|---|---|--------------------------|
| Density                            | 1.07 g/cc   | 0.0387 lb/in <sup>3</sup>                           | (DAM)                    |
| Water Absorption                   | 5.5 %   | 5.5 %   | (from DAM)               |
| Moisture Absorption at Equilibrium | 1.5 %   | 1.5 %   | 23°C/50% R.H. (from DAM) |
| Linear Mold Shrinkage, Flow        | 0.010 cm/cm   | 0.010 in/in   |                          |
| Linear Mold Shrinkage, Transverse  | 0.0090 cm/cm  | 0.0090 in/in  |                          |
| Melt Flow                          | 10 g/10 min<br>@Load 5.00 kg,<br>Temperature 250 °C | 10 g/10 min<br>@Load 11.0 lb,<br>Temperature 482 °F | cm <sup>3</sup> /10 min. |

| Mechanical Properties  | Metric  | English   | Comments |
|------------------------|---|---|----------|
| Charpy Impact, Notched | 7.00 J/cm <sup>2</sup>                          | 33.3 ft-lb/in <sup>2</sup>                          |          |
|                        | 1.30 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 6.19 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F |          |

| Thermal Properties                          | Metric               | English              | Comments              |
|---|----------------------|----------------------|-----------------------|
| CTE, linear, Parallel to Flow               | 119 µm/m-°C          | 66.1 µin/in-°F       | DAM                   |
|   | @Temperature 20.0 °C | @Temperature 68.0 °F |                       |
| Deflection Temperature at 1.8 MPa (264 psi) | 54.0 °C              | 129 °F               | (from DAM)            |
| Vicat Softening Point                       | 102 °C               | 216 °F               | 50°C/h 50N (from DAM) |

| Processing Properties | Metric | English | Comments          |
|-----------------------|--------|---------|-------------------|
| Melt Temperature      | 260 °C | 500 °F  | Injection Molding |

| Mold Temperature<br>Processing Properties | 80.0 °C<br>Metric | 176 °F<br>English | Injection Molding<br>Comments |
|---|-------------------|-------------------|-------------------------------|
| Injection Velocity                        | 40.0 mm/sec       | 1.57 in/sec       |                               |

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