

## Ineos ABS Lustran® ABS 240 Injection Molding Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Molded

## Material Notes:

Lustran® ABS 240 has standard impact strength and is injection molding grade.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ineos-ABS-Lustran-ABS-240-Injection-Molding-Grade.php](http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-ABS-240-Injection-Molding-Grade.php)

| Physical Properties               | Metric                                              | English                                             | Comments  |
|-----------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------|
| Density                           | 1.05 g/cc                                           | 0.0379 lb/in <sup>3</sup>                           | ISO 1183  |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm                               | 0.0040 - 0.0060 in/in                               | ISO 294-4 |
| Melt Flow                         | 20 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 °C | 20 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 °F | ISO 1133  |

| Mechanical Properties      | Metric                                             | English                                                | Comments                     |
|----------------------------|----------------------------------------------------|--------------------------------------------------------|------------------------------|
| Hardness, Rockwell R       | 115                                                | 115                                                    | ISO 2039-2                   |
| Tensile Strength at Break  | 35.0 MPa                                           | 5080 psi                                               | 50 mm/min; ISO 527-1,-2      |
| Tensile Strength, Yield    | 49.0 MPa                                           | 7110 psi                                               | 50 mm/min; ISO 527-1,-2      |
| Elongation at Break        | 20 %                                               | 20 %                                                   | 50 mm/min; acc. ISO 527-1,-2 |
| Tensile Modulus            | 2.55 GPa                                           | 370 ksi                                                | 1 mm/min; ISO 527-1,-2       |
| Flexural Strength          | 75.0 MPa                                           | 10900 psi                                              | 2 mm/min; ISO 178            |
| Flexural Modulus           | 2.50 GPa                                           | 363 ksi                                                | 2 mm/min; ISO 178            |
| Izod Impact, Notched (ISO) | 7.00 kJ/m <sup>2</sup><br>@Temperature -30.0<br>°C | 3.33 ft-lb/in <sup>2</sup><br>@Temperature -22.0<br>°F | ISO 180-1A                   |
|                            | 12.0 kJ/m <sup>2</sup><br>@Temperature -20.0<br>°C | 5.71 ft-lb/in <sup>2</sup><br>@Temperature -4.00<br>°F | ISO 180-1A                   |
|                            | 16.0 kJ/m <sup>2</sup><br>@Temperature 23.0<br>°C  | 7.61 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F     | ISO 180-1A                   |

| Thermal Properties                          | Metric  | English | Comments    |
|---------------------------------------------|---------|---------|-------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 97.0 °C | 207 °F  | ISO 75-1,-2 |

| Thermal Properties                       | Metric                   | English                    | Comments             |
|------------------------------------------|--------------------------|----------------------------|----------------------|
| Tensile strength at 1.8 MPa<br>(264 psi) | 43.0 Å°C                 | 100 Å°F                    | ISO 15-1,2           |
| Vicat Softening Point                    | 100 Å°C<br>@Load 5.10 kg | 212 Å°F<br>@Load 11.2 lb   | 120Å°C/hour; ISO 306 |
| Flammability, UL94                       | HB<br>@Thickness 1.60 mm | HB<br>@Thickness 0.0630 in |                      |

| Optical Properties | Metric | English | Comments             |
|--------------------|--------|---------|----------------------|
| Gloss              | 88 %   | 88 %    | Angle 60Å°; ISO 2813 |

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