

## Bhansali Engineering Abstron IM17SHG PMMA- ABS Alloy

Category : Polymer , Thermoplastic , ABS Polymer , Acrylic (PMMA)

**Material Notes:**

High Gloss Information provided by Bhansali

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bhansali-Engineering-Abstron-IM17SHG-PMMA-ABS-Alloy.php](http://www.lookpolymers.com/polymer_Bhansali-Engineering-Abstron-IM17SHG-PMMA-ABS-Alloy.php)

| Physical Properties   | Metric  | English   | Comments   |
|-----------------------|---|---|------------|
| Specific Gravity      | 1.06 g/cc   | 1.06 g/cc   | ASTM D792  |
| Linear Mold Shrinkage | 0.00200 - 0.00400 cm/cm                               | 0.00200 - 0.00400 in/in                               | ASTM D955  |
| Melt Flow             | 28.0 g/10 min<br>@Load 10.0 kg,<br>Temperature 220 °C | 28.0 g/10 min<br>@Load 22.0 lb,<br>Temperature 428 °F | ASTM D1238 |

| Mechanical Properties   | Metric                          | English                              | Comments                    |
|-------------------------|---------------------------------|--------------------------------------|-----------------------------|
| Hardness, Rockwell R    | 108                             | 108                                  | ASTM D785                   |
| Tensile Strength, Yield | 45.1 MPa<br>@Thickness 3.20 mm  | 6540 psi<br>@Thickness 0.126 in      | Type I, 5 mm/min; ASTM D638 |
| Flexural Yield Strength | 68.6 MPa<br>@Thickness 6.40 mm  | 9960 psi<br>@Thickness 0.252 in      | 5 mm/min; ASTM D790         |
| Flexural Modulus        | 2.35 GPa<br>@Thickness 6.40 mm  | 341 ksi<br>@Thickness 0.252 in       | 5 mm/min; ASTM D790         |
| Izod Impact, Notched    | 1.18 J/cm<br>@Thickness 6.40 mm | 2.20 ft-lb/in<br>@Thickness 0.252 in | ASTM D256                   |
|                         | 1.47 J/cm<br>@Thickness 3.20 mm | 2.76 ft-lb/in<br>@Thickness 0.126 in | ASTM D256                   |

| Thermal Properties                          | Metric                        | English                       | Comments            |
|---|-------------------------------|-------------------------------|---------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 92.0 °C<br>@Thickness 6.40 mm | 198 °F<br>@Thickness 0.252 in | Method A; ASTM D648 |
| Flammability, UL94                          | HB<br>@Thickness 3.20 mm      | HB<br>@Thickness 0.126 in     |                     |

| Descriptive Properties | Value | Comments               |
|------------------------|-------|------------------------|
| Pencil Hardness        | 2B    | 45°, 7.5 N, ASTM D3363 |

## Contact Songhan Plastic Technology Co.,Ltd.

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