

ASTM Property | BEPL



BHANSALI ENGINEERING POLYMERS LIMITED

|                              |                                            |
|------------------------------|--------------------------------------------|
| Resin Feature & Applications | High Flow, Medium Impact   Home Appliances |
| Resin Type                   | ABS                                        |

| Property                                | Measuring Method | Condition                               | Unit                | Value   |
|-----------------------------------------|------------------|-----------------------------------------|---------------------|---------|
| Rheological                             |                  |                                         |                     |         |
| Melt Flow Index                         | ASTM D 1238      | at 220°C /10 kg                         | gm/10min            | 43      |
| Mechanical                              |                  |                                         |                     |         |
| Izod Impact Strength*, Notched          | ASTM D-256       | at 1/8" or 3.2mm and 23°C               | Kgf.cm/cm           | 22      |
| Izod Impact Strength*, Notched          | ASTM D-256       | at 1/4" or 6.4mm and 23°C               | Kgf.cm/cm           | 18      |
| Tensile Strength at Yield, Type I       | ASTM D-638       | 50mm/min                                | Kgf/cm <sup>2</sup> | 480     |
| Flexural Strength*                      | ASTM D-790       | 5 mm/min                                | Kgf/cm <sup>2</sup> | 630     |
| Flexural Modulus*                       | ASTM D-790       | 5 mm/min                                | Kgf/cm <sup>2</sup> | 22500   |
| Rockwell Hardness*                      | ASTM D-785       | 23°C                                    | R-Scale             | 108     |
| Thermal                                 |                  |                                         |                     |         |
| Heat Distortion Temperature, (Method A) | ASTM D-648       | at 18.56 Kgf/cm <sup>2</sup> (Annealed) | °C                  | 93      |
| Physical                                |                  |                                         |                     |         |
| Specific Gravity                        | ASTM D 792       | 23°C                                    | -                   | 1.045   |
| Other Properties                        |                  |                                         |                     |         |
| Mould Shinkage**                        | ASTM D-995       | -                                       | %                   | 0.4-0.6 |

**Note:**

The values above are representative values of natural product and not to be used for mould designs.

The values above are not to be construed as sales specifications and implies no legal binding effect.

All properties except melt flow index are measured on injection moulded specimens.

Properties marked\* shall be reported, only if explicitly committed or contracted.

Properties marked \*\* are values typical of ABS and are provided here solely for customer convenience.

The values provided in this document may be changed due to quality improvement of the product without any prior notification.

Date, when last updated: 02/12/2021