

## Star Plastics ABS3545 Molding Grade ABS

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

### Material Notes:

Information provided by Star Plastics, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Star-Plastics-ABS3545-Molding-Grade-ABS.php](http://www.lookpolymers.com/polymer_Star-Plastics-ABS3545-Molding-Grade-ABS.php)

| Physical Properties      | Metric                                                | English                                               | Comments   |
|--------------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Specific Gravity         | 1.05 g/cc                                             | 1.05 g/cc                                             | ASTM D792  |
| Maximum Moisture Content | 0.15                                                  | 0.15                                                  |            |
| Linear Mold Shrinkage    | 0.0040 - 0.0080 cm/cm                                 | 0.0040 - 0.0080 in/in                                 | ASTM D955  |
| Melt Flow                | 3.5 g/10 min<br>@Load 3.80 kg,<br>Temperature 230 Â°C | 3.5 g/10 min<br>@Load 8.38 lb,<br>Temperature 446 Â°F | ASTM D1238 |

| Mechanical Properties   | Metric    | English       | Comments                    |
|-------------------------|-----------|---------------|-----------------------------|
| Tensile Strength, Yield | 43.4 MPa  | 6300 psi      | ASTM D638                   |
| Tensile Modulus         | 2.28 GPa  | 330 ksi       | ASTM D638                   |
| Flexural Yield Strength | 68.9 MPa  | 10000 psi     | ASTM D790                   |
| Flexural Modulus        | 2.41 GPa  | 350 ksi       | ASTM D790                   |
| Izod Impact, Notched    | 2.40 J/cm | 4.50 ft-lb/in | 73Â°F, 0.125 in.; ASTM D256 |

| Thermal Properties                          | Metric   | English | Comments                      |
|---------------------------------------------|----------|---------|-------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 82.2 Â°C | 180 Â°F | unannealed, .125in; ASTM D648 |
| Flammability, UL94                          | HB       | HB      |                               |

| Processing Properties     | Metric        | English       | Comments |
|---------------------------|---------------|---------------|----------|
| Rear Barrel Temperature   | 188 - 218 Â°C | 370 - 425 Â°F |          |
| Middle Barrel Temperature | 204 - 232 Â°C | 400 - 450 Â°F |          |
| Front Barrel Temperature  | 218 - 246 Â°C | 425 - 475 Â°F |          |
| Nozzle Temperature        | 218 - 274 Â°C | 425 - 525 Â°F |          |
| Melt Temperature          | 218 - 274 Â°C | 425 - 525 Â°F |          |

| Processing Properties | Metric            | English        | Comments |
|-----------------------|-------------------|----------------|----------|
| Drying Temperature    | 82.2 - 93.3 Â°C   | 180 - 200 Â°F  |          |
| Dry Time              | 2 - 4 hour        | 2 - 4 hour     |          |
| Back Pressure         | 0.172 - 0.689 MPa | 25.0 - 100 psi |          |
| Screw Speed           | 25 - 75 rpm       | 25 - 75 rpm    |          |

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