

Star Plastics ABS448T 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-ABS448T-Molding-Grade-ABS.php

| Physical Properties | Metric | English | Comments |
|--------------------------|---|---|------------|
| Specific Gravity | 1.04 g/cc | 1.04 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 | 5.0 g/10 min @Load 3.80 kg, Temperature 230 Â°C | 5.0 g/10 min @Load 8.38 lb, Temperature 446 Â°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|-----------------------------|
| Tensile Strength, Yield | 44.8 MPa | 6500 psi | ASTM D638 |
| Tensile Modulus | 2.41 GPa | 350 ksi | ASTM D638 |
| Flexural Yield Strength | 72.4 MPa | 10500 psi | ASTM D790 |
| Flexural Modulus | 2.41 GPa | 350 ksi | ASTM D790 |
| Izod Impact, Notched | 3.20 J/cm | 6.00 ft-lb/in | 73Â°F, 0.125 in.; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|----------|---------|-------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 83.9 Â°C | 183 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 Å°C | 180 - 200 Å°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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