



Toyolac™ 700 X01 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

High flow, Medium impact

General

| | | |
|-------------------|---|---|
| Features | <ul style="list-style-type: none"> • High Flow | <ul style="list-style-type: none"> • High Impact Resistance |
| Uses | <ul style="list-style-type: none"> • Camera Applications • Cell Phones • Cosmetics | <ul style="list-style-type: none"> • Kitchenware • Toys • White Goods & Small Appliances |
| Processing Method | <ul style="list-style-type: none"> • Injection Molding | <ul style="list-style-type: none"> • Writing Instruments |
| ISO Designation | <ul style="list-style-type: none"> • >ABS< | |

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-----------------|
| Density (73°F) | 1.05 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 40 | g/10 min | ISO 1133 |
| Molding Shrinkage ² | 0.40 to 0.60 | % | Internal Method |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (73°F) | 7400 | psi | ISO 527-2 |
| Tensile Strain (Break, 73°F) | 21 | % | ISO 527-2 |
| Flexural Modulus (73°F) | 344000 | psi | ISO 178 |
| Flexural Stress (73°F) | 10700 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 8.1 | ft-lb/in ² | ISO 179 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, 73°F) | 114 | | ISO 2039-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 264 psi, Unannealed | 178 | °F | ISO 75-2/A |
| Vicat Softening Temperature | 203 | °F | |
| CLTE - Flow | 4.0E-5 | in/in/°F | ASTM D696 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.05 in) | HB | | UL 94 |

Notes

¹ Typical properties: these are not to be construed as specifications.

² 23°C/50%RH