

Toyolac™ AX05 X03 U

Toray Industries, Inc. - Acrylonitrile Butadiene Styrene

General Information

Product Description

Standard

General

| | | | |
|-------------------|------------------------|-----------------------|----------------------------------|
| Features | • Chemical Resistant | • Detergent Resistant | |
| Uses | • Bathroom Accessories | • Kitchenware | • White Goods & Small Appliances |
| Processing Method | • Injection Molding | | |
| ISO Designation | • >ABS< | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-----------------|
| Density (73°F) | 1.04 | g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 15 | 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) | 5950 | psi | ISO 527-2 |
| Tensile Strain (Break, 73°F) | 15 | % | ISO 527-2 |
| Flexural Modulus (73°F) | 270000 | psi | ISO 178 |
| Flexural Stress (73°F) | 8700 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 16 | ft-lb/in ² | ISO 179 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale, 73°F) | 108 | | ISO 2039-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 264 psi, Unannealed | 174 | °F | ISO 75-2/A |
| Vicat Softening Temperature | 194 to 203 | °F | |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.06 in) | HB | | UL 94 |

Notes

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

² 23°C/50%RH