

# Toyolac™ AX05 X32 U ABS

## TECHNICAL DATA

### Product Description

Standard

**Uses** • Bathroom Accessories

**Processing Method** • Injection Molding

**ISO Designation** • >ABS<

**Type** • ABS/Detergent resistant

### ASTM & ISO Properties

| Physical                                                 | Nominal Value | Unit     | Test Method     |
|----------------------------------------------------------|---------------|----------|-----------------|
| Density (23°C)                                           | 1.05          | g/cm³    | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)                | 24            | g/10 min | ISO 1133        |
| Molding Shrinkage <sup>1</sup>                           | 0.40 to 0.60  | %        | Internal Method |
| Mechanical                                               | Nominal Value | Unit     | Test Method     |
| Tensile Strength (23°C)                                  | 48            | MPa      | ISO 527-2       |
| Tensile Strain (Break, 23°C)                             | 12            | %        | ISO 527-2       |
| Flexural Modulus (23°C)                                  | 2280          | MPa      | ISO 178         |
| Flexural Stress (23°C)                                   | 75            | MPa      | ISO 178         |
| Impact                                                   | Nominal Value | Unit     | Test Method     |
| Charpy Notched Impact Strength (23°C)                    | 15.0          | kJ/m²    | ISO 179         |
| Hardness                                                 | Nominal Value | Unit     | Test Method     |
| Rockwell Hardness (R-Scale, 23°C)                        | 108           |          | ISO 2039-2      |
| Thermal                                                  | Nominal Value | Unit     | Test Method     |
| Deflection Temperature Under Load<br>1.8 MPa, Unannealed | 80            | °C       | ISO 75-2/A      |
| Vicat Softening Temperature                              | 90 to 95      | °C       |                 |
| Flammability                                             | Nominal Value | Unit     | Test Method     |
| Flame Rating (1.5 mm)                                    | HB            |          | UL 94           |

### Notes

<sup>1</sup> 23°C/50%RH

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