

Toyolac® AX05 X03

Acrylonitrile Butadiene Styrene
Toray Plastics (Malaysia) Sdn. Bhd.

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Technical Data

Product Description

Toyolac® AX05 X03 is an Acrylonitrile Butadiene Styrene (ABS) material. It is available in Asia Pacific or Europe.

Important attributes of Toyolac® AX05 X03 are:

- Flame Rated
- RoHS Compliant

General

| | | |
|---------------------------|---|----------|
| Material Status | • Commercial: Active | |
| Literature ¹ | <ul style="list-style-type: none">• Processing (English)• Technical Datasheet - ASTM (English)• Technical Datasheet - ISO (English) | |
| Search for UL Yellow Card | • Toyolac® | |
| Availability | • Asia Pacific | • Europe |
| RoHS Compliance | • RoHS Compliant | |

| Physical | Nominal Value Unit | Test Method |
|---|------------------------|-----------------------|
| Specific Gravity | 1.04 g/cm ³ | ASTM D792 ISO 1183 |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 17 g/10 min | ISO 1133 |
| Molding Shrinkage - Flow | 0.40 to 0.60 % | ASTM D955 |
| Mechanical | Nominal Value Unit | Test Method |
| Tensile Modulus | 2100 MPa | ISO 527-2/1 |
| Tensile Strength | | |
| Yield ³ | 39.0 MPa | ASTM D638 |
| Yield | 47.0 MPa | ISO 527-2/50 |
| Tensile Elongation | | |
| Break ³ | 25 % | ASTM D638 |
| Break | > 10 % | ISO 527-2/50 |
| Flexural Modulus ⁴ | 2000 MPa | ASTM D790 |
| Flexural Strength | | |
| ^{-- 4} | 60.0 MPa | ASTM D790 |
| ^{-- 5} | 59.0 MPa | ISO 178 |
| Impact | Nominal Value Unit | Test Method |
| Charpy Notched Impact Strength (23°C) | 30 kJ/m ² | ISO 179/1eA |
| Notched Izod Impact (23°C, 12.7 mm) | 340 J/m | ASTM D256 |
| Hardness | Nominal Value Unit | Test Method |
| Rockwell Hardness (R-Scale) | 108 | ASTM D785 |
| Thermal | Nominal Value Unit | Test Method |
| Deflection Temperature Under Load | | |
| 1.8 MPa, Unannealed, 6.40 mm | 84.0 °C | ASTM D648 |
| 1.8 MPa, Unannealed | 80.0 °C | ISO 75-2/A |
| Flammability | Nominal Value Unit | Test Method |
| Flame Rating | HB | UL 94 |

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 5.0 mm/min

⁴ 3.0 mm/min

⁵ 2.0 mm/min

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The information presented on this datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Where to Buy

Supplier

Toray Plastics (Malaysia) Sdn. Bhd.
Penang, Malaysia
Telephone: +60-4-398-8088
Web: <http://www.torayplastics.com/>

Distributor

Distrupol Ltd

Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.
Telephone: 08452003040
Web: <http://www.distrupol.com/>
Availability: Belgium, Luxembourg, Netherlands

