

# Toyolac® 700-X01

Acrylonitrile Butadiene Styrene

Toray Resin Company

## Message:

Toyolac® 700-X01 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

- Flame Rated
- High Flow
- Impact Resistant

| General Information                       |                          |                   |                       |
|-------------------------------------------|--------------------------|-------------------|-----------------------|
| Features                                  | High Flow                |                   |                       |
|                                           | Medium Impact Resistance |                   |                       |
| Part Marking Code                         | >ABS<                    |                   |                       |
| Physical                                  | Nominal Value            | Unit              | Test Method           |
| Specific Gravity                          |                          |                   |                       |
| --                                        | 1.05                     | g/cm <sup>3</sup> | ASTM D792             |
| 23°C                                      | 1.05                     | g/cm <sup>3</sup> | ISO 1183              |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 40                       | g/10 min          | ISO 1133              |
| Molding Shrinkage                         | 0.40 to 0.60             | %                 | Internal Method       |
| Hardness                                  | Nominal Value            | Unit              | Test Method           |
| Rockwell Hardness (R-Scale, 23°C)         | 114                      |                   | ASTM D785, ISO 2039-2 |
| Mechanical                                | Nominal Value            | Unit              | Test Method           |
| Tensile Strength                          |                          |                   |                       |
| --                                        | 47.0                     | MPa               | ASTM D638             |
| 23°C                                      | 51.0                     | MPa               | ISO 527-2             |
| Tensile Elongation                        |                          |                   |                       |
| Break                                     | 15                       | %                 | ASTM D638             |
| Break, 23°C                               | 21                       | %                 | ISO 527-2             |
| Flexural Modulus                          |                          |                   |                       |
| --                                        | 2350                     | MPa               | ASTM D790             |
| 23°C                                      | 2370                     | MPa               | ISO 178               |
| Flexural Strength                         |                          |                   |                       |
| --                                        | 75.0                     | MPa               | ASTM D790             |
| 23°C                                      | 74.0                     | MPa               | ISO 178               |
| Impact                                    | Nominal Value            | Unit              | Test Method           |
| Charpy Notched Impact Strength (23°C)     | 17                       | kJ/m <sup>2</sup> | ISO 179               |
| Notched Izod Impact                       |                          |                   | ASTM D256             |
| -30°C, 3.20 mm                            | 110                      | J/m               |                       |
| -30°C, 12.7 mm                            | 78                       | J/m               |                       |

| 0°C, 3.20 mm                      | 160           | J/m      |             |
|-----------------------------------|---------------|----------|-------------|
| 0°C, 12.7 mm                      | 110           | J/m      |             |
| 23°C, 3.20 mm                     | 200           | J/m      |             |
| 23°C, 12.7 mm                     | 190           | J/m      |             |
| Thermal                           | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load |               |          |             |
| 1.8 MPa, Unannealed, 6.40 mm      | 86.0          | °C       | ASTM D648   |
| 1.8 MPa, Unannealed               | 81.0          | °C       | ISO 75-2/A  |
| Vicat Softening Temperature       | 95.0          | °C       |             |
| CLTE - Flow                       | 7.2E-5        | cm/cm/°C | ASTM D696   |
| Flammability                      | Nominal Value |          | Test Method |
| Flame Rating                      | HB            |          | UL 94       |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

