

# Toyolac® 824V-X01

Acrylonitrile Butadiene Styrene

Toray Resin Company

## Message:

Toyolac® 824V-X01 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Flame Retardant

| General Information                       |                 |                   |                       |
|-------------------------------------------|-----------------|-------------------|-----------------------|
| Additive                                  | Flame Retardant |                   |                       |
| Features                                  | Flame Retardant |                   |                       |
| Part Marking Code                         | >ABS-FR(17)<    |                   |                       |
| Physical                                  | Nominal Value   | Unit              | Test Method           |
| Specific Gravity                          |                 |                   |                       |
| --                                        | 1.09            | g/cm <sup>3</sup> | ASTM D792             |
| 23°C                                      | 1.09            | g/cm <sup>3</sup> | ISO 1183              |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 37              | g/10 min          | ISO 1133              |
| Molding Shrinkage                         | 0.40 to 0.70    | %                 | Internal Method       |
| Hardness                                  | Nominal Value   | Unit              | Test Method           |
| Rockwell Hardness (R-Scale, 23°C)         | 108             |                   | ASTM D785, ISO 2039-2 |
| Mechanical                                | Nominal Value   | Unit              | Test Method           |
| Tensile Strength                          |                 |                   |                       |
| --                                        | 44.0            | MPa               | ASTM D638             |
| 23°C                                      | 46.0            | MPa               | ISO 527-2             |
| Tensile Elongation                        |                 |                   |                       |
| Break                                     | 10              | %                 | ASTM D638             |
| Break, 23°C                               | 10              | %                 | ISO 527-2             |
| Flexural Modulus                          |                 |                   |                       |
| --                                        | 2200            | MPa               | ASTM D790             |
| 23°C                                      | 2050            | MPa               | ISO 178               |
| Flexural Strength                         |                 |                   |                       |
| --                                        | 67.0            | MPa               | ASTM D790             |
| 23°C                                      | 67.0            | MPa               | ISO 178               |
| Impact                                    | Nominal Value   | Unit              | Test Method           |
| Charpy Notched Impact Strength (23°C)     | 18              | kJ/m <sup>2</sup> | ISO 179               |
| Notched Izod Impact (23°C, 12.7 mm)       | 160             | J/m               | ASTM D256             |
| Thermal                                   | Nominal Value   | Unit              | Test Method           |
| Deflection Temperature Under Load         |                 |                   |                       |
| 1.8 MPa, Unannealed, 6.40 mm              | 85.0            | °C                | ASTM D648             |

|                             |               |             |            |
|-----------------------------|---------------|-------------|------------|
| 1.8 MPa, Unannealed         | 77.0          | °C          | ISO 75-2/A |
| Vicat Softening Temperature | 95.0          | °C          |            |
| Flammability                | Nominal Value | Test Method |            |
| Flame Rating (0.750 mm)     | V-2           | UL 94       |            |

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