

# Toyolac® ASG-40

Styrene Acrylonitrile  
Toray Resin Company

Message:

Toyolac® ASG-40 is a Styrene Acrylonitrile (SAN) product filled with 40% glass fiber. It is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

| General Information                       |                                  |                   |                       |
|-------------------------------------------|----------------------------------|-------------------|-----------------------|
| UL YellowCard                             | E41797-233577                    |                   |                       |
| Filler / Reinforcement                    | Glass Fiber,40% Filler by Weight |                   |                       |
| Part Marking Code                         | >SAN-GF40<                       |                   |                       |
| Physical                                  | Nominal Value                    | Unit              | Test Method           |
| Specific Gravity                          |                                  |                   |                       |
| --                                        | 1.40                             | g/cm <sup>3</sup> | ASTM D792             |
| 23°C                                      | 1.40                             | g/cm <sup>3</sup> | ISO 1183              |
| Melt Mass-Flow Rate (MFR) (240°C/10.0 kg) | 18                               | g/10 min          | ISO 1133              |
| Molding Shrinkage                         | 0.10 to 0.30                     | %                 | Internal Method       |
| Hardness                                  | Nominal Value                    | Unit              | Test Method           |
| Rockwell Hardness (R-Scale, 23°C)         | 125                              |                   | ASTM D785, ISO 2039-2 |
| Mechanical                                | Nominal Value                    | Unit              | Test Method           |
| Tensile Strength                          |                                  |                   |                       |
| --                                        | 137                              | MPa               | ASTM D638             |
| 23°C                                      | 125                              | MPa               | ISO 527-2             |
| Tensile Elongation                        |                                  |                   |                       |
| Break                                     | 3.0                              | %                 | ASTM D638             |
| Break, 23°C                               | 2.0                              | %                 | ISO 527-2             |
| Flexural Modulus                          |                                  |                   |                       |
| --                                        | 10800                            | MPa               | ASTM D790             |
| 23°C                                      | 13100                            | MPa               | ISO 178               |
| Flexural Strength                         |                                  |                   |                       |
| --                                        | 160                              | MPa               | ASTM D790             |
| 23°C                                      | 200                              | MPa               | ISO 178               |
| Impact                                    | Nominal Value                    | Unit              | Test Method           |
| Charpy Notched Impact Strength (23°C)     | 5.0                              | kJ/m <sup>2</sup> | ISO 179               |
| Notched Izod Impact (23°C, 12.7 mm)       | 39                               | J/m               | ASTM D256             |
| Thermal                                   | Nominal Value                    | Unit              | Test Method           |
| Deflection Temperature Under Load         |                                  |                   |                       |
| 1.8 MPa, Unannealed, 6.40 mm              | 111                              | °C                | ASTM D648             |
| 1.8 MPa, Unannealed                       | 110                              | °C                | ISO 75-2/A            |
| Flammability                              | Nominal Value                    |                   | Test Method           |

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