

# Terluran® BX-11000

## Acrylonitrile Butadiene Styrene

### BASF Corporation

| General                                       |                      |               |                        |                         |
|-----------------------------------------------|----------------------|---------------|------------------------|-------------------------|
| Material Status                               | • Commercial: Active |               |                        |                         |
| Availability                                  | • North America      |               |                        |                         |
| RoHS Compliance                               | • RoHS Compliant     |               |                        |                         |
| Physical                                      |                      | Nominal Value | Unit                   | Test Method             |
| Specific Gravity                              |                      | 1.02          | g/cm <sup>3</sup>      | ASTM D792               |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)      |                      | 1.2           | g/10 min               | ASTM D1238              |
| Melt Volume-Flow Rate (MVR)                   |                      |               |                        | ASTM D1238              |
| 200°C/5.0 kg                                  |                      | 1.30          | cm <sup>3</sup> /10min |                         |
| 220°C/10.0 kg                                 |                      | 19.0          | cm <sup>3</sup> /10min |                         |
| 230°C/3.8 kg                                  |                      | 3.20          | cm <sup>3</sup> /10min |                         |
| Mechanical                                    |                      | Nominal Value | Unit                   | Test Method             |
| Tensile Modulus (23°C)                        |                      | 2020          | MPa                    | ASTM D638               |
| Tensile Strength                              |                      |               |                        | ASTM D638               |
| Yield                                         |                      | 33.0          | MPa                    |                         |
| Yield, 23°C <sup>2</sup>                      |                      | 37.0          | MPa                    |                         |
| Tensile Elongation <sup>2</sup> (Yield, 23°C) |                      | 3.2           | %                      | ASTM D638               |
| Flexural Modulus (23°C)                       |                      | 1980          | MPa                    | ASTM D790               |
| Flexural Strength (23°C)                      |                      | 69.0          | MPa                    | ASTM D790               |
| Impact                                        |                      | Nominal Value | Unit                   | Test Method             |
| Notched Izod Impact (23°C)                    |                      | 7.50          | J/m                    | ASTM D256               |
| Instrumented Dart Impact                      |                      |               |                        | ASTM D3763              |
| Energy to Peak Force                          |                      | 14.5          | J                      |                         |
| Total Energy                                  |                      | 23.9          | J                      |                         |
| Thermal                                       |                      | Nominal Value | Unit                   | Test Method             |
| Deflection Temperature Under Load             |                      |               |                        | ASTM D648               |
| 0.45 MPa, Unannealed                          |                      | 191           | °C                     |                         |
| 1.8 MPa, Unannealed                           |                      | 176           | °C                     |                         |
| Vicat Softening Temperature                   |                      |               |                        |                         |
| --                                            |                      | 217           | °C                     | ASTM D1525 <sup>3</sup> |
| --                                            |                      | 221           | °C                     | ASTM D1525 <sup>4</sup> |
| Injection                                     |                      | Nominal Value | Unit                   |                         |
| Processing (Melt) Temp                        |                      | 210 to 260    | °C                     |                         |
| Mold Temperature                              |                      | 40.0 to 60.0  | °C                     |                         |
| Extrusion                                     |                      | Nominal Value | Unit                   |                         |
| Melt Temperature                              |                      | 200 to 220    | °C                     |                         |

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 51 mm/min

<sup>3</sup> Rate A (50°C/h), Loading 2 (50 N)

<sup>4</sup> Rate B (120°C/h), Loading 1 (10 N)

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