

# Ravamid® B ST BK45

Polyamide 6

Ravago Group

## Message:

Black, elastomer modified, high impact

All the products are also available Heat Stabilized (H) and UV Stabilized (UV)

| General Information                                     |                        |                   |                              |
|---------------------------------------------------------|------------------------|-------------------|------------------------------|
| Additive                                                | Impact Modifier        |                   |                              |
| Recycled Content                                        | Yes                    |                   |                              |
| Features                                                | High Impact Resistance |                   |                              |
|                                                         | Impact Modified        |                   |                              |
| Appearance                                              | Black                  |                   |                              |
| Physical                                                | Nominal Value          | Unit              | Test Method                  |
| Specific Gravity                                        | 1.09                   | g/cm <sup>3</sup> | ASTM D792, ISO 1183          |
| Molding Shrinkage - Flow                                | 1.0 to 1.1             | %                 | ASTM D955                    |
| Humidity                                                | < 0.25                 | %                 | ISO 960                      |
| Mechanical                                              | Nominal Value          | Unit              | Test Method                  |
| Tensile Strength                                        |                        |                   | ASTM D638, ISO 527-2         |
| Yield                                                   | 40.0                   | MPa               |                              |
| Break                                                   | 30.0                   | MPa               |                              |
| Tensile Elongation (Break)                              | 60                     | %                 | ASTM D638, ISO 527-2         |
| Flexural Modulus                                        | 1500                   | MPa               | ASTM D790, ISO 178           |
| Impact                                                  | Nominal Value          | Unit              | Test Method                  |
| Charpy Notched Impact Strength                          |                        |                   | ISO 179/1eA                  |
| -30°C                                                   | 11                     | kJ/m <sup>2</sup> |                              |
| 23°C                                                    | 14                     | kJ/m <sup>2</sup> |                              |
| Notched Izod Impact (Area)                              |                        |                   | ASTM D256                    |
| -30°C                                                   | 10.5                   | kJ/m <sup>2</sup> |                              |
| 23°C                                                    | 14.0                   | kJ/m <sup>2</sup> |                              |
| Notched Izod Impact Strength                            |                        |                   | ISO 180/1A                   |
| -30°C                                                   | 11                     | kJ/m <sup>2</sup> |                              |
| 23°C                                                    | 14                     | kJ/m <sup>2</sup> |                              |
| Thermal                                                 | Nominal Value          | Unit              | Test Method                  |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 50.0                   | °C                | ASTM D648, ISO 75-2/A        |
| Vicat Softening Temperature                             | 190                    | °C                | ISO 306/B50, ASTM D1525<br>1 |
| Flammability                                            | Nominal Value          | Unit              | Test Method                  |
| Flame Rating                                            |                        |                   | UL 94                        |

|                                        |     |    |                |
|----------------------------------------|-----|----|----------------|
| 1.60 mm                                | HB  |    |                |
| 3.20 mm                                | HB  |    |                |
| Glow Wire Flammability Index (2.00 mm) | 650 | °C | IEC 60695-2-12 |

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

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