

# Rilsan® BESVOA FDA

Polyamide 11

Arkema

Message:

Rilsan® BESVOA FDA is a polyamide produced from a renewable source. This natural grade, dedicated to extrusion, contains a negligible amount of oligomers and is specially designed for food contact applications.

MAIN APPLICATIONS

Food and beverage tubing.

Forensic evidence bags.

| General Information            |                                            |                   |             |
|--------------------------------|--------------------------------------------|-------------------|-------------|
| Features                       | Food Contact Acceptable                    |                   |             |
|                                | Renewable Resource Content                 |                   |             |
| Uses                           | Bags                                       |                   |             |
|                                | Non-specific Food Applications             |                   |             |
|                                | Tubing                                     |                   |             |
| Appearance                     | Natural Color                              |                   |             |
| Processing Method              | Extrusion                                  |                   |             |
| Multi-Point Data               | Isothermal Stress vs. Strain (ISO 11403-1) |                   |             |
|                                | Secant Modulus vs. Strain (ISO 11403-1)    |                   |             |
|                                | Viscosity vs. Shear Rate (ISO 11403-2)     |                   |             |
| Physical                       | Nominal Value                              | Unit              | Test Method |
| Density                        | 1.02                                       | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                       | Nominal Value                              | Unit              | Test Method |
| Shore Hardness                 |                                            |                   | ISO 868     |
| Shore D                        | 76                                         |                   |             |
| Shore D, 15 sec                | 71                                         |                   |             |
| Mechanical                     | Nominal Value                              | Unit              | Test Method |
| Tensile Modulus                | 1180                                       | MPa               | ISO 527-2   |
| Tensile Stress                 |                                            |                   | ISO 527-2   |
| Yield                          | 36.0                                       | MPa               |             |
| Break                          | 52.0                                       | MPa               |             |
| Tensile Strain                 |                                            |                   | ISO 527-2   |
| Yield                          | 5.0                                        | %                 |             |
| Break                          | > 200                                      | %                 |             |
| Flexural Modulus               | 1100                                       | MPa               | ISO 178     |
| Impact                         | Nominal Value                              | Unit              | Test Method |
| Charpy Notched Impact Strength |                                            |                   | ISO 179     |

| -30°C                            | 13              | kJ/m <sup>2</sup> |             |
|----------------------------------|-----------------|-------------------|-------------|
| 23°C                             | 15              | kJ/m <sup>2</sup> |             |
| Charpy Unnotched Impact Strength |                 |                   | ISO 179     |
| -30°C                            | No Break        |                   |             |
| 23°C                             | No Break        |                   |             |
| Thermal                          | Nominal Value   | Unit              | Test Method |
| Melting Temperature              | 186             | °C                | ISO 11357-3 |
| Additional Information           | Nominal Value   | Unit              | Test Method |
| ISO Shortname                    | PA11, E, 22-010 |                   | ISO 1874    |
| Renewable Carbon Content         | 100             | %                 | ASTM D6866  |
| Extrusion                        | Nominal Value   | Unit              |             |
| Drying Temperature               | 65.0 to 80.0    | °C                |             |
| Drying Time                      | 4.0 to 6.0      | hr                |             |
| Melt Temperature                 | 230 to 280      | °C                |             |

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