

# Rilsan® BESN Noir P20 TL

Polyamide 11

Arkema

Message:

Rilsan ® BESN Noir P20 TL is a polyamide 11 produced from a renewable source. This black grade is plasticized and designed for extrusion.

MAIN APPLICATIONS

Fluid transportation.

Tubing for use in motor vehicle.

| General Information              |                                             |                   |             |
|----------------------------------|---------------------------------------------|-------------------|-------------|
| Additive                         | Plasticizer                                 |                   |             |
| Features                         | Renewable Resource Content                  |                   |             |
| Appearance                       | Black                                       |                   |             |
| Processing Method                | Extrusion                                   |                   |             |
| Multi-Point Data                 | Creep Modulus vs. Time (ISO 11403-1)        |                   |             |
|                                  | Isochronous Stress vs. Strain (ISO 11403-1) |                   |             |
|                                  | Isothermal Stress vs. Strain (ISO 11403-1)  |                   |             |
|                                  | Secant Modulus vs. Strain (ISO 11403-1)     |                   |             |
|                                  | Shear Modulus vs. Temperature (ISO 11403-1) |                   |             |
|                                  | Viscosity vs. Shear Rate (ISO 11403-2)      |                   |             |
| Physical                         | Nominal Value                               | Unit              | Test Method |
| Density                          | 1.04                                        | g/cm <sup>3</sup> | ISO 1183    |
| Hardness                         | Nominal Value                               | Unit              | Test Method |
| Shore Hardness                   |                                             |                   | ISO 868     |
| Shore D                          | 74                                          |                   |             |
| Shore D, 15 sec                  | 64                                          |                   |             |
| Mechanical                       | Nominal Value                               | Unit              | Test Method |
| Tensile Modulus                  | 560                                         | MPa               | ISO 527-2   |
| Tensile Stress                   |                                             |                   | ISO 527-2   |
| Yield                            | 32.0                                        | MPa               |             |
| Break                            | 53.0                                        | MPa               |             |
| Tensile Strain                   |                                             |                   | ISO 527-2   |
| Yield                            | 33                                          | %                 |             |
| Break                            | > 200                                       | %                 |             |
| Flexural Modulus                 | 490                                         | MPa               | ISO 178     |
| Impact                           | Nominal Value                               | Unit              | Test Method |
| Charpy Notched Impact Strength   |                                             |                   | ISO 179     |
| -30°C                            | 10                                          | kJ/m <sup>2</sup> |             |
| 23°C                             | 70                                          | 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      | 182                 | °C   | ISO 11357-3 |
| Additional Information   | Nominal Value       | Unit | Test Method |
| ISO Shortname            | PA11-P, EHL, 22-005 |      | ISO 1874    |
| Renewable Carbon Content | > 92                | %    | ASTM D6866  |
| Extrusion                | Nominal Value       | Unit |             |
| Drying Temperature       | 80.0 to 90.0        | °C   |             |
| Drying Time              | 4.0 to 8.0          | hr   |             |
| Melt Temperature         | 230 to 280          | °C   |             |

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