

# Rilsan® BESN G9 TL

Polyamide 11

Arkema

Message:

Rilsan ® BESN G9 TL is a polyamide 11 produced from a renewable source. This black coloured grade with improved friction properties is designed for extrusion.

MAIN APPLICATIONS

Tube with improved friction properties.

| General Information              |                                        |       |             |
|----------------------------------|----------------------------------------|-------|-------------|
| Features                         | Renewable Resource Content             |       |             |
| Uses                             | Tubing                                 |       |             |
| Appearance                       | Black                                  |       |             |
| Processing Method                | Extrusion                              |       |             |
| Multi-Point Data                 | Viscosity vs. Shear Rate (ISO 11403-2) |       |             |
| Physical                         | Nominal Value                          | Unit  | Test Method |
| Density                          | 1.08                                   | g/cm³ | 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                  | 2130                                   | MPa   | ISO 527-2   |
| Tensile Stress                   |                                        |       | ISO 527-2   |
| Yield                            | 46.0                                   | MPa   |             |
| Break                            | 41.0                                   | MPa   |             |
| Tensile Strain                   |                                        |       | ISO 527-2   |
| Yield                            | 5.0                                    | %     |             |
| Break                            | > 150                                  | %     |             |
| Flexural Modulus                 | 1790                                   | MPa   | ISO 178     |
| Impact                           | Nominal Value                          | Unit  | Test Method |
| Charpy Notched Impact Strength   |                                        |       | ISO 179     |
| -30°C                            | 6.0                                    | kJ/m² |             |
| 23°C                             | 7.0                                    | kJ/m² |             |
| 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, EHLS, 22-020, CD10               |       | ISO 1874    |

|                          |               |      |            |
|--------------------------|---------------|------|------------|
| Renewable Carbon Content | > 85          | %    | 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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