

# Rilsan® BMV

Polyamide 11

Arkema

Message:

Rilsan® BMV is a Polyamide 11 (Nylon 11) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: eco-friendly/green.

| General Information                            |        |                                        |                   |                           |
|------------------------------------------------|--------|----------------------------------------|-------------------|---------------------------|
| Features                                       |        | Renewable Resource Content             |                   |                           |
| Forms                                          |        | Pellets                                |                   |                           |
| Processing Method                              |        | Injection Molding                      |                   |                           |
| Multi-Point Data                               |        | Viscosity vs. Shear Rate (ISO 11403-2) |                   |                           |
| Physical                                       | Dry    | Conditioned                            | Unit              | Test Method               |
| Density                                        | 1030   | 1030                                   | kg/m <sup>3</sup> | ISO 1183 <sup>1</sup>     |
| Water Absorption (Saturation)                  | 1.9    | --                                     | %                 | ISO 62 <sup>2</sup>       |
| Mechanical                                     | Dry    | Conditioned                            | Unit              | Test Method               |
| Tensile Stress (Yield)                         | --     | 40.0                                   | MPa               | ISO 527-2 <sup>3</sup>    |
| Tensile Strain (Yield)                         | --     | 10                                     | %                 | ISO 527-2 <sup>4</sup>    |
| Nominal strain at break                        | --     | > 50                                   | %                 | ISO 527-2 <sup>5</sup>    |
| Thermal                                        | Dry    | Conditioned                            | Unit              | Test Method               |
| Deflection Temperature Under Load              |        |                                        |                   | ISO 75-2 <sup>6</sup>     |
| 0.45 MPa                                       | 145    | --                                     | °C                |                           |
| 1.8 MPa                                        | 50.0   | --                                     | °C                |                           |
| Vicat Softening Temperature (50°C/h, B (50N))  | 160    | --                                     | °C                | ISO 306 <sup>7</sup>      |
| Melting Temperature <sup>8</sup>               | 189    | --                                     | °C                | ISO 11357-3 <sup>9</sup>  |
| CLTE - Flow                                    | 8.5E-5 | --                                     | cm/cm/°C          | ISO 11359-2 <sup>10</sup> |
| Electrical                                     | Dry    | Conditioned                            | Unit              | Test Method               |
| Surface resistivity                            | --     | 1.0E+14                                | ohms              | IEC 60093 <sup>11</sup>   |
| Volume resistivity                             | --     | 1.0E+12                                | ohms·m            | IEC 60093 <sup>12</sup>   |
| Electric strength                              | --     | 30                                     | kV/mm             | IEC 60243-1 <sup>13</sup> |
| Comparative tracking index                     | --     | 600                                    |                   | IEC 60112 <sup>14</sup>   |
| Flammability                                   | Dry    | Conditioned                            | Unit              | Test Method               |
| Burning Behav. at 1.6mm nom. thickn. (1.60 mm) | V-2    | --                                     |                   | ISO 1210 <sup>15</sup>    |
| Burning Behav. at thickness h (3.20 mm)        | V-2    | --                                     |                   | ISO 1210 <sup>16</sup>    |
| Oxygen index                                   | 25     | --                                     | %                 | ISO 4589-2 <sup>17</sup>  |
| NOTE                                           |        |                                        |                   |                           |

|     |                                                                                 |
|-----|---------------------------------------------------------------------------------|
| 1.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 2.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 3.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 4.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 5.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 6.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 7.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 8.  | 10 °C/min                                                                       |
| 9.  | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 10. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 11. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 12. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 13. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 14. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 15. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 16. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 17. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |

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