

# Rilsan® ARVO 950 TLD

Polyamide 12

Arkema

Message:

Rilsan® ARVO 950 TLD is a Polyamide 12 (Nylon 12) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Characteristics include:  
Good UV Resistance  
Heat Stabilizer  
Mold Release Agent

| General Information |                                                                                                                                                                              |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additive            | Heat Stabilizer<br>Mold Release                                                                                                                                              |
| Features            | Good UV Resistance<br>Heat Stabilized                                                                                                                                        |
| Forms               | Powder                                                                                                                                                                       |
| Multi-Point Data    | Creep Modulus vs. Time (ISO 11403-1)<br>Isochronous Stress vs. Strain (ISO 11403-1)<br>Isothermal Stress vs. Strain (ISO 11403-1)<br>Secant Modulus vs. Strain (ISO 11403-1) |

| Physical                       | Dry      | Conditioned | Unit              | Test Method              |
|--------------------------------|----------|-------------|-------------------|--------------------------|
| Density                        | 1010     | 1010        | kg/m <sup>3</sup> | ISO 1183 <sup>1</sup>    |
| Water Absorption               |          |             |                   | ISO 62 <sup>2</sup>      |
| Saturation                     | 1.6      | --          | %                 |                          |
| Equilibrium                    | 0.70     | --          | %                 |                          |
| Mechanical                     | Dry      | Conditioned | Unit              | Test Method              |
| Tensile modulus                | 1240     | 1080        | MPa               | ISO 527-2 <sup>3</sup>   |
| Tensile Stress (Yield)         | 42.0     | 40.0        | MPa               | ISO 527-2 <sup>4</sup>   |
| Tensile Strain (Yield)         | 9.0      | 11          | %                 | ISO 527-2 <sup>5</sup>   |
| Nominal strain at break        | > 50     | > 50        | %                 | ISO 527-2 <sup>6</sup>   |
| Impact                         | Dry      | Conditioned | Unit              | Test Method              |
| Charpy notched impact strength |          |             |                   | ISO 179/1eA <sup>7</sup> |
| -30°C                          | 4.00     | 6.00        | kJ/m <sup>2</sup> |                          |
| 23°C                           | 5.00     | 7.00        | kJ/m <sup>2</sup> |                          |
| Charpy impact strength         |          |             |                   | ISO 179/1eU <sup>8</sup> |
| -30°C                          | No Break | No Break    |                   |                          |
| 23°C                           | No Break | No Break    |                   |                          |
| Thermal                        | Dry      | Conditioned | Unit              | Test Method              |

|                                                |                                                                           |             |          |                           |
|------------------------------------------------|---------------------------------------------------------------------------|-------------|----------|---------------------------|
| Deflection Temperature Under Load              |                                                                           |             |          | ISO 75-2 <sup>9</sup>     |
| 0.45 MPa                                       | 135                                                                       | --          | °C       |                           |
| 1.8 MPa                                        | 55.0                                                                      | --          | °C       |                           |
| Vicat Softening Temperature (50°C/h, B (50N))  | 142                                                                       | --          | °C       | ISO 306 <sup>10</sup>     |
| Melting Temperature <sup>11</sup>              | 178                                                                       | --          | °C       | ISO 11357-3 <sup>12</sup> |
| CLTE - Flow                                    | 1.0E-4                                                                    | --          | cm/cm/°C | ISO 11359-2 <sup>13</sup> |
| Electrical                                     | Dry                                                                       | Conditioned | Unit     | Test Method               |
| Surface resistivity                            | --                                                                        | 1.0E+14     | ohms     | IEC 60093 <sup>14</sup>   |
| Volume resistivity                             | --                                                                        | 1.0E+12     | ohms · m | IEC 60093 <sup>15</sup>   |
| Electric strength                              | --                                                                        | 30          | kV/mm    | IEC 60243-1 <sup>16</sup> |
| Comparative tracking index                     | --                                                                        | 600         |          | IEC 60112 <sup>17</sup>   |
| Flammability                                   | Dry                                                                       | Conditioned | Unit     | Test Method               |
| Burning Behav. at 1.6mm nom. thickn. (1.60 mm) | HB                                                                        | --          |          | ISO 1210 <sup>18</sup>    |
| Burning Behav. at thickness h (3.20 mm)        | V-2                                                                       | --          |          | ISO 1210 <sup>19</sup>    |
| NOTE                                           |                                                                           |             |          |                           |
| 1.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 2.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 3.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 4.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 5.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 6.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 7.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 8.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 9.                                             | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |
| 10.                                            | Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted. |             |          |                           |

|     |                                                                                 |
|-----|---------------------------------------------------------------------------------|
| 11. | 10 °C/min                                                                       |
| 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. |
| 18. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |
| 19. | Tested in accordance with<br>ISO 10350. 23°C/50%r.h.<br>unless otherwise noted. |

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