

## Arkema Group Rilsan® AESN Y T6L Nylon 12, MoS2 Filled (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

### Material Notes:

Designation ISO 1874-PA12,EHLS,22-010,MD05Grade with molybdenum filler for extrusion. Available color: steel gray. Reinforced light and heat stabilizing agents.Low friction coefficient. No need of lubricant. Good impact strength. Easy to be processed.Example applications: Control cables tubing, parking brake control cable, cable for opening doors.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-AESN-Y-T6L-Nylon-12-MoS2-Filled-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AESN-Y-T6L-Nylon-12-MoS2-Filled-Conditioned.php)

| Physical Properties | Metric                               | English                              | Comments |
|---------------------|--------------------------------------|--------------------------------------|----------|
| Density             | 1.04 g/cc                            | 0.0376 lb/in <sup>3</sup>            |          |
| Melt Flow           | 1.6 g/10 min                         | 1.6 g/10 min                         |          |
|                     | @Load 2.16 kg,<br>Temperature 235 °C | @Load 4.76 lb,<br>Temperature 455 °F |          |

| Mechanical Properties   | Metric                  | English                    | Comments                  |
|-------------------------|-------------------------|----------------------------|---------------------------|
| Tensile Strength, Yield | 46.0 MPa                | 6670 psi                   | 50 mm/min                 |
| Elongation at Break     | >= 50 %                 | >= 50 %                    | Nominal Strain; 50 mm/min |
| Elongation at Yield     | 7.0 %                   | 7.0 %                      | 50 mm/min                 |
| Tensile Modulus         | 1.58 GPa                | 229 ksi                    | 1 mm/min                  |
| Charpy Impact Unnotched | NB                      | NB                         |                           |
|                         | NB                      | NB                         | Low Temp                  |
| Charpy Impact, Notched  | 0.680 J/cm <sup>2</sup> | 3.24 ft-lb/in <sup>2</sup> |                           |
|                         | 0.680 J/cm <sup>2</sup> | 3.24 ft-lb/in <sup>2</sup> |                           |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |                           |

| Thermal Properties                          | Metric               | English              | Comments |
|---------------------------------------------|----------------------|----------------------|----------|
| CTE, linear, Parallel to Flow               | 90.0 µm/m-°C         | 50.0 µin/in-°F       |          |
|                                             | @Temperature 20.0 °C | @Temperature 68.0 °F |          |
| Melting Point                               | 174 °C               | 345 °F               | (Dry)    |
| Deflection Temperature at 0.46 MPa (66 psi) | 140 °C               | 284 °F               |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 55.0 °C              | 131 °F               |          |

| Vicat Softening Point<br>Thermal Properties | 143 °C<br>Metric   | 289 °F<br>English    | 50°C/hr; 50N<br>Comments |
|---------------------------------------------|--------------------|----------------------|--------------------------|
| Flammability, UL94                          | V-2                | V-2                  |                          |
|                                             | @Thickness 1.60 mm | @Thickness 0.0630 in |                          |
|                                             | V-2                | V-2                  |                          |
|                                             | @Thickness 3.20 mm | @Thickness 0.126 in  |                          |

| Electrical Properties  | Metric          | English         | Comments |
|------------------------|-----------------|-----------------|----------|
| Electrical Resistivity | 1.00e+14 ohm-cm | 1.00e+14 ohm-cm |          |
| Surface Resistance     | 1.00e+14 ohm    | 1.00e+14 ohm    |          |

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