

## Arkema Group Rilsan® AESN P302 TL Nylon 12, Flexible Tubing Grade (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Extrusion/Tubing Grade

### Material Notes:

(Former designation: RILSAN MA 4403) Designation ISO 1874-PA12-HI,EHL,22-003 Flexible grade for tubes extrusion. Available color: black. Light and thermal stabilized. Flexibility. High burst pressure and impact strength. Fit for use in a wide range of temperature. Very good chemical resistance. Example applications: Tubes for air brake applications for trucks. approved by ISO 7628, DIN 73378 (PA12-HIPHL), NFR 12632, SAEJ 844. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-AESN-P302-TL-Nylon-12-Flexible-Tubing-Grade-Conditioned.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-AESN-P302-TL-Nylon-12-Flexible-Tubing-Grade-Conditioned.php)

| Physical Properties | Metric                               | English                              | Comments |
|---------------------|--------------------------------------|--------------------------------------|----------|
| Melt Flow           | 6.0 g/10 min                         | 6.0 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 | 27.0 MPa                | 3920 psi                   | 50 mm/min                 |
| Elongation at Break     | >= 50 %                 | >= 50 %                    | Nominal Strain; 50 mm/min |
| Elongation at Yield     | 26 %                    | 26 %                       | 50 mm/min                 |
| Tensile Modulus         | 0.445 GPa               | 64.5 ksi                   | 1 mm/min                  |
| Charpy Impact Unnotched | NB                      | NB                         |                           |
|                         | NB                      | NB                         | Low Temp                  |
| Charpy Impact, Notched  | NB                      | NB                         |                           |
|                         | 0.520 J/cm <sup>2</sup> | 2.47 ft-lb/in <sup>2</sup> |                           |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |                           |

## Contact Songhan Plastic Technology Co.,Ltd.

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