

## Arkema Group Rilsan® BMN Y BZ TL Nylon 11, Bronze Bead Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 11

### Material Notes:

Designation ISO 1874-PA11,MHLS,16-020,(Z+M)(B+D)(80BZ+05)Rigid grade with bronze beads (85%) and molybdenum fillers for injection molding. Available color: steel brown. Light and heat stabilized.No need of lubricant. Low friction coefficient. High density (d=4).

Outstanding compressive strength. High thermal conductivity. High dimensional stability (low moisture absorption).Example applications:

Auto-lubricating bearing.ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Rilsan-BMN-Y-BZ-TL-Nylon-11-Bronze-Bead-Filled-Dry.php](http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BMN-Y-BZ-TL-Nylon-11-Bronze-Bead-Filled-Dry.php)

| Physical Properties | Metric                                                | English                                               | Comments |
|---------------------|-------------------------------------------------------|-------------------------------------------------------|----------|
| Density             | 3.80 g/cc                                             | 0.137 lb/in <sup>3</sup>                              |          |
| Water Absorption    | 0.30 %                                                | 0.30 %                                                |          |
| Melt Flow           | 17.7 g/10 min<br>@Load 5.00 kg,<br>Temperature 235 °C | 17.7 g/10 min<br>@Load 11.0 lb,<br>Temperature 455 °F |          |

| Mechanical Properties      | Metric                                           | English                                             | Comments |
|----------------------------|--------------------------------------------------|-----------------------------------------------------|----------|
| Tensile Strength, Ultimate | 42.0 MPa                                         | 6090 psi                                            | 5 mm/min |
| Elongation at Break        | 2.0 %                                            | 2.0 %                                               | 5 mm/min |
| Tensile Modulus            | 4.97 GPa                                         | 721 ksi                                             | 1 mm/min |
| Charpy Impact Unnotched    | 1.60 J/cm <sup>2</sup>                           | 7.61 ft-lb/in <sup>2</sup>                          |          |
|                            | 2.00 J/cm <sup>2</sup><br>@Temperature -30.0 °C  | 9.52 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F |          |
| Charpy Impact, Notched     | 0.400 J/cm <sup>2</sup>                          | 1.90 ft-lb/in <sup>2</sup>                          |          |
|                            | 0.350 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 1.67 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F |          |

| Thermal Properties | Metric                   | English                    | Comments |
|--------------------|--------------------------|----------------------------|----------|
| Melting Point      | 183 °C                   | 361 °F                     | 10°C/min |
| Flammability, UL94 | HB<br>@Thickness 1.60 mm | HB<br>@Thickness 0.0630 in |          |
|                    | HB                       | HB                         |          |

| Thermal Properties | @Thickness 3.10 mm<br>Metric | @Thickness 0.122 in<br>English | Comments |
|--------------------|------------------------------|--------------------------------|----------|
|--------------------|------------------------------|--------------------------------|----------|

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