

Arkema Group Rilsan® BESN F15 TL Nylon 11, Flexible Tubing Grade (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Flexible Tubing Grade

Material Notes:

Designation ISO 1874-PA11-P,EHL,16-001 High flexible grade for tubes extrusion. Available color: black and natural. Light and heat stabilized. High flexibility. High burst pressure and impact strength. Good fatigue resistance. Good chemical resistance. Example applications: Pneumatic applications. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-BESN-F15-TL-Nylon-11-Flexible-Tubing-Grade-Dry.php

| Physical Properties | Metric | English | Comments |
|------------------------------------|--------------------------------------|--------------------------------------|---------------------|
| Density | 1.05 g/cc | 0.0379 lb/in ³ | |
| Moisture Absorption at Equilibrium | 0.70 % | 0.70 % | Humidity Absorption |
| Melt Flow | 1.5 g/10 min | 1.5 g/10 min | |
| | @Load 2.16 kg, Temperature 235 °C | @Load 4.76 lb, Temperature 455 °F | |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------|----------------------------|---------------------------|
| Tensile Strength, Yield | 16.0 MPa | 2320 psi | 50 mm/min |
| | @Strain 50.0 % | @Strain 50.0 % | |
| Elongation at Break | >= 50 % | >= 50 % | Nominal Strain; 50 mm/min |
| Tensile Modulus | 0.165 GPa | 23.9 ksi | 1 mm/min |
| Charpy Impact Unnotched | NB | NB | |
| | NB | NB | Low Temp |
| Charpy Impact, Notched | NB | NB | |
| | 0.440 J/cm ² | 2.09 ft-lb/in ² | |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|----------|
| Melting Point | 170 °C | 338 °F | 10°C/min |
| Deflection Temperature at 1.8 MPa (264 psi) | 36.0 °C | 96.8 °F | |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |

Thermal Properties

Metric
@ Thickness 3.10 mm

English
@ Thickness 0.122 in

Comments

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