

Arkema Group Rilsan® 6733 Nylon 11, Flexible Tubing Grade (Conditioned)

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

Material Notes:

Designation ISO 1874-PA11/xx,E,18-002 Transparent and flexible copolymer for tubes extrusion. Additive free. High flexibility. Very good transparency. High chemical resistance. USP XXIII class VI approval. Example applications: Catheters. ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Rilsan-6733-Nylon-11-Flexible-Tubing-Grade-Conditioned.php

| Physical Properties | Metric | English | Comments |
|---------------------|--------------------------------------|--------------------------------------|----------|
| Density | 1.00 g/cc | 0.0361 lb/in ³ | |
| Melt Flow | 15.5 g/10 min | 15.5 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 | 0.180 GPa | 26.1 ksi | 1 mm/min |

| 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 | 150 °C | 302 °F | (Dry) |
| Deflection Temperature at 0.46 MPa (66 psi) | 69.0 °C | 156 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 41.0 °C | 106 °F | |
| Vicat Softening Point | 180 °C | 356 °F | 50°C/hr; 50N |
| Flammability, UL94 | V-2 | V-2 | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|--|
| Transmission, Visible | 80 % | 80 % | Mfr. reports 'Transparent' but doesn't quantify. |

| Optical Properties | Metric | English | Comments |
|------------------------|-----------------|-----------------|----------|
| Electrical Properties | Metric | English | Comments |
| Electrical Resistivity | 6.00e+10 ohm-cm | 6.00e+10 ohm-cm | |
| Surface Resistance | 4.00e+13 ohm | 4.00e+13 ohm | |
| Dielectric Strength | 32.0 kV/mm | 813 kV/in | |

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