

Radici Radilon® S 38M (dry) Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Radilon® S is a range of polyamide 6 (PA6) products obtained through the polymerization of caprolactam and used for injection, extrusion and blow-molding. Information provided by Radici group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Radici-Radilon-S-38M-dry-Nylon-6.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|-------------------------------------|
| Specific Gravity | 1.14 g/cc | 1.14 g/cc | |
| Viscosity Measurement | 225 | 225 | cm ³ /g Viscosity Number |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------|----------------------------|----------|
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | |
| Elongation at Break | >= 50 % | >= 50 % | Nominal |
| Elongation at Yield | 8.0 % | 8.0 % | |
| Tensile Modulus | 1.50 GPa | 218 ksi | |
| Charpy Impact Unnotched | NB | NB | |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | NB | NB | |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 1.00 J/cm ² | 4.76 ft-lb/in ² | |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|--------------------|----------------------|----------|
| Melting Point | 217 °C | 423 °F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 50.0 °C | 122 °F | |
| Vicat Softening Point | 130 °C | 266 °F | 50°C/h |
| | @Load 5.10 kg | @Load 11.2 lb | |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| | HB | HB | |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------------------|-----------------------|----------|
| | @ Thickness 0.800 mm | @ Thickness 0.0315 in | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|----------|
| Volume Resistivity | >= 1.00e+11 ohm-cm | >= 1.00e+11 ohm-cm | |

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