

# Niretan B F15 M

Polyamide 6, reinforced with 15 % of glass fibre, impact modified, for injection moulding

|                 | Properties                          | Test condition | Method      | Unit                             | Value                              |
|-----------------|-------------------------------------|----------------|-------------|----------------------------------|------------------------------------|
| Mechanical      | Tensile Stress at Break             | 5 mm/min       | ASTM D638   | MPa                              | 100                                |
|                 | Flexural Maximum Stress             | 1,3 mm/min     | ASTM D790   | MPa                              | 145                                |
|                 | Flexural Elastic Modulus            | 1,3 mm/min     | ASTM D790   | MPa                              | 4500                               |
|                 | Izod Notched Impact Strength        | 23°C/3mm       | ASTM D256   | J/m                              | 90                                 |
|                 | Rockwell Hardness                   |                | ASTM D785   | R-scale                          | 100                                |
|                 | Elongation                          | 50 mm/min      | ASTM D638   | %                                | 3,7                                |
| Thermal         | Vicat Softening Temperature         | 49N / 120°C/h  | ASTM D 1525 | °C                               | 205                                |
|                 | Heat Distortion Temperature H.D.T   | 1.82 MPa       | ASTM D648   | °C                               | 175                                |
|                 | Linear Expansion Coefficient        | 23°C/55°C      | ISO 11359-2 | 10 <sup>-5</sup> K <sup>-1</sup> | 6                                  |
| Flame Behaviour | Glow Wire Temperature (G.W.T)       | S=2.0 mm       | IEC 695-2-1 | °C                               | 650                                |
|                 | UL 94 Rating                        | S=1.6 mm       | UL 94       | class                            | HB                                 |
|                 | UL 94 Rating                        | S=3.2 mm       | UL 94       | class                            | HB                                 |
| Electrical      | Surface Resistivity                 | dry            | IEC 60093   | Ω                                | 10 <sup>14</sup> /10 <sup>13</sup> |
|                 | Volume Resistivity                  | dry            | IEC 60093   | Ω cm                             | 10 <sup>15</sup> /10 <sup>12</sup> |
| Various         | Moulding Shrinkage                  | parallel       | -           | %                                | 0,5/1,0                            |
| Physical        | Density                             | 23°C           | ASTM D792   | g/cm <sup>3</sup>                | 1,21                               |
|                 | Humidity Absorption from Atmosphere | 23°C – 50% HR  | ASTM D570   | %                                | 2,5                                |
|                 | Cristalline Melting Temperature     | DSC            | -           | °C                               | 220                                |

Properties

Test condition

Method

Unit

Value

All values are approximate values and are given after the best knowledge and conscience. Hence, because of variable processing terms or processing procedures an obligation cannot be derived from it.

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