

# Niretan B F35

Polyamide 6, reinforced with 30% of glass fibre, for injection moulding.

|                 | Properties                        | Test condition | Method      | Unit                             | Value                              |
|-----------------|-----------------------------------|----------------|-------------|----------------------------------|------------------------------------|
| Mechanical      | Tensile Stress at Break           | 5 mm/min       | ASTM D638   | MPa                              | 180/110                            |
|                 | Flexural Maximum Stress           | 1,3 mm/min     | ASTM D790   | MPa                              | 250/150                            |
|                 | Flexural Elastic Modulus          | 1,3 mm/min     | ASTM D790   | MPa                              | 9500/6000                          |
|                 | Izod Notched Impact Strength      | 23°C/3mm       | ASTM D256   | J/m                              | 150/210                            |
|                 | Izod Notched Impact Strength      | -20°C/3mm      | ASTM D256   | J/m                              | 100/160                            |
|                 | Rockwell Hardness                 |                | ASTM D785   | R-scale                          | 115/100                            |
|                 | Elongation                        | 50 mm/min      | ASTM D638   | %                                | 2,5/4,5                            |
| Thermal         | Heat Distortion Temperature H.D.T | 1.82 MPa       | ASTM D648   | °C                               | 202                                |
|                 | Linear Expansion Coefficient      | 23°C/55°C      | ISO 11359-2 | 10 <sup>-5</sup> K <sup>-1</sup> | 4                                  |
| 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      | Relative Permittivity             | 1 Mhz – dry    | IEC 60250   | -                                | 3,8/4,2                            |
|                 | Dissipation Factor                | 1 Mhz – dry    | IEC 60250   | -                                | 0,02/0,12                          |
|                 | Dielectric Strength               | S=1 mm         | IEC 60243-1 | KV/mm                            | 34/24                              |
|                 | Surface Resistivity               | dry            | IEC 60093   | □                                | 10 <sup>14</sup> /10 <sup>13</sup> |
|                 | Volume Resistivity                | dry            | IEC 60093   | □ □ cm                           | 10 <sup>15</sup> /10 <sup>12</sup> |
| Various         | Moulding Shrinkage                | parallel       | -           | %                                | 0,3/0,7                            |
| Physical        | Density                           | 23°C           | ASTM D792   | g/cm <sup>3</sup>                | 1,41                               |
|                 | Water Absorption                  | 24h - 23°C     | ASTM D570   | %                                | 7                                  |

|  | Properties                      | Test condition | Method | Unit | Value |
|--|---------------------------------|----------------|--------|------|-------|
|  |                                 |                |        |      | 2,5   |
|  | Cristalline Melting Temperature | DSC            | -      | °C   | 220   |

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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