



| Tarnoform® 300 K                          |       |                 |                  |
|-------------------------------------------|-------|-----------------|------------------|
| POM-K5                                    |       |                 | Grupa Azoty S.A. |
| Rheological properties                    | Value | Unit            | Test Standard    |
| <b>ISO Data</b>                           |       |                 |                  |
| Melt volume-flow rate, MVR                | 8     | cm³/10min       | ISO 1133         |
| Temperature                               | 190   | °C              | ISO 1133         |
| Load                                      | 2.16  | kg              | ISO 1133         |
| Molding shrinkage, parallel               | 2.0   | %               | ISO 294-4, 2577  |
| Melt flow index, MFI                      | 9     | g/10min         | ISO 1133         |
| MFI temperature                           | 190   | °C              | ISO 1133         |
| MFI load                                  | 2.16  | kg              | ISO 1133         |
| Mechanical properties                     | Value | Unit            | Test Standard    |
| <b>ISO Data</b>                           |       |                 |                  |
| Tensile Modulus                           | 3000  | MPa             | ISO 527-1/-2     |
| Yield stress                              | 60    | MPa             | ISO 527-1/-2     |
| Yield strain                              | 8     | %               | ISO 527-1/-2     |
| Strain at break                           | 30    | %               | ISO 527-1/-2     |
| Charpy impact strength (+23°C)            | 110   | kJ/m²           | ISO 179/1eU      |
| Charpy notched impact strength (+23°C)    | 4     | kJ/m²           | ISO 179/1eA      |
| Flexural modulus (23°C)                   | 2700  | MPa             | ISO 178          |
| Izod Impact notched, 23°C                 | 5.5   | kJ/m²           | ISO 180/1A       |
| Ball indentation hardness                 | 155   | MPa             | ISO 2039-1       |
| Thermal properties                        | Value | Unit            | Test Standard    |
| <b>ISO Data</b>                           |       |                 |                  |
| Melting temperature (10°C/min)            | 167   | °C              | ISO 11357-1/-3   |
| Temp. of deflection under load (1.80 MPa) | 115   | °C              | ISO 75-1/-2      |
| Vicat softening temperature, 50°C/h 50N   | 150   | °C              | ISO 306          |
| Burning behav. at thickness h             | HB    | class           | IEC 60695-11-10  |
| Thickness tested                          | 3.2   | mm              | IEC 60695-11-10  |
| Electrical properties                     | Value | Unit            | Test Standard    |
| <b>ISO Data</b>                           |       |                 |                  |
| Relative permittivity, 1MHz               | 4.2   | -               | IEC 60250        |
| Dissipation factor, 1MHz                  | 60    | E-4             | IEC 60250        |
| Volume resistivity                        | 1E12  | Ohm*m           | IEC 60093        |
| Surface resistivity                       | 1E14  | Ohm             | IEC 60093        |
| Electric strength                         | 35    | kV/mm           | IEC 60243-1      |
| Comparative tracking index                | 600   | -               | IEC 60112        |
| Other properties                          | Value | Unit            | Test Standard    |
| <b>ISO Data</b>                           |       |                 |                  |
| Humidity absorption                       | 0.2   | %               | Sim. to ISO 62   |
| Density                                   | 1440  | kg/m³           | ISO 1183         |
| <b>Characteristics</b>                    |       |                 |                  |
| <b>Processing</b>                         |       | <b>Features</b> |                  |
| Injection Molding                         |       | Copolymer       |                  |
| <b>Delivery form</b>                      |       |                 |                  |
| Granules, Black, Natural Color            |       |                 |                  |