

## Technical Data Sheet



### ALCOM PC FC 740/9 PTFE10

## MOCOM

|                        |                                        |
|------------------------|----------------------------------------|
| Base Polymer           | Polycarbonate, High Heat Polycarbonate |
| Filler/Additive System | 10 % PTFE                              |
| Special Features       | improved sliding / wear                |
| Market Segment         | various                                |
| Application Area       | injection moulded parts                |
| Typical Applications   | functional components                  |

|                               |                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in a dry air (dessiccant) dryer 100-120 °C<br>for 2-3 h<br>in an air circulating dryer 100-120 °C<br>for 4-12 h<br>dependant on moisture content |
| Processing Injection Moulding | melt temperature 270-310 °C<br>mould temperature 80-110 °C                                                                                       |
| Storage                       | dry, protected from light                                                                                                                        |
| Minimum Shelf Life            | months <12                                                                                                                                       |

| Properties                               | Value     | Dimension         | Test Norm   |
|------------------------------------------|-----------|-------------------|-------------|
| <b>Mechanical Properties</b>             |           |                   |             |
| Tensile Modulus                          | 2200      | MPa               | ISO 527     |
| Tensile Stress at Yield                  | 56        | MPa               | ISO 527     |
| Tensile Elongation at Yield              | 5.4       | %                 | ISO 527     |
| Tensile Elongation at Break              | 25        | %                 | ISO 527     |
| Impact Strength (Charpy, 23 °C)          | no break  | kJ/m <sup>2</sup> | ISO 179/1eU |
| Impact Strength (Charpy, -40 °C)         | 250       | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23 °C)  | 11        | kJ/m <sup>2</sup> | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40 °C) | 8.5       | kJ/m <sup>2</sup> | ISO 179/1eA |
| <b>Thermal Properties</b>                |           |                   |             |
| Vicat B50                                | 142       | °C                | ISO 306     |
| <b>Rheological Properties</b>            |           |                   |             |
| Shrinkage (24h)                          | 0.6 - 0.8 | %                 | ISO 294-4   |
| <b>Physical Properties</b>               |           |                   |             |
| Density                                  | 1250      | kg/m <sup>3</sup> | ISO 1183    |