

## Technical Data Sheet - Preliminary Product



### ALCOM PC 740/4 UV SV1003-06MCO

## MOCOM

|                      |                                    |
|----------------------|------------------------------------|
| Base Polymer         | Polycarbonate                      |
| Colour               | metallic effect                    |
| Special Features     | UV stabilised, flow line optimised |
| Typical Applications | various                            |

|                               |                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Pre-Drying Conditions         | in an air circulating dryer 100-120 °C<br>for 2-12 h<br>dependant on moisture content<br>max. moisture content <0,02 % |
| Processing Injection Moulding | melt temperature 270-310 °C<br>mould temperature 80-110 °C                                                             |
| Storage                       | dry, protected from light                                                                                              |

| Properties                              | Value | Dimension              | Test Norm   |
|-----------------------------------------|-------|------------------------|-------------|
| <b>Mechanical Properties</b>            |       |                        |             |
| Tensile Modulus                         | 2600  | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 64    | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 5.5   | %                      | ISO 527     |
| Tensile Elongation at Break             | 10    | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | 150   | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | 80    | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 6     | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 5.5   | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |       |                        |             |
| Vicat B50                               | 142   | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 130   | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |       |                        |             |
| Melt Index (MVR)                        | 20    | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 300   | °C                     | -           |
| MVR load                                | 1.2   | kg                     | -           |
| Shrinkage (24h)                         | ≥0.6  | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |       |                        |             |
| Density                                 | 1200  | kg/m <sup>3</sup>      | ISO 1183    |
| <b>Flammability</b>                     |       |                        |             |
| Flammability (1.5 mm)                   | V-2   | class                  | UL 94       |
| Yellow Card available                   | yes   | -                      | -           |