



## ALCOM PC 740/2566 PTFE20

(Last update: 01.11.2022)



|                        |                         |
|------------------------|-------------------------|
| Base Polymer           | Polycarbonate           |
| Filler/Additive System | 20 % PTFE               |
| Special Features       | improved sliding / wear |
| Market Segment         | Automotive, Machinery   |
| Application Area       | various                 |
| Typical Applications   | functional components   |

|                               |  |
|-------------------------------|--|
| Pre-Drying Conditions         | 120 °C in a dry air (dessiccant) dryer<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  |

| Properties                              | Value     | Dimension              | Test Norm   |
|---|-----------|------------------------|-------------|
| <b>Mechanical Properties</b>            |           |                        |             |
| Tensile Modulus                         | 2100      | MPa                    | ISO 527     |
| Tensile Stress at Yield                 | 50        | MPa                    | ISO 527     |
| Tensile Elongation at Yield             | 5.3       | %                      | ISO 527     |
| Tensile Elongation at Break             | 70        | %                      | ISO 527     |
| Impact Strength (Charpy, 23°C)          | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Impact Strength (Charpy, -40°C)         | no break  | kJ/m <sup>2</sup>      | ISO 179/1eU |
| Notched Impact Strength (Charpy, 23°C)  | 27        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| Notched Impact Strength (Charpy, -40°C) | 16        | kJ/m <sup>2</sup>      | ISO 179/1eA |
| <b>Thermal Properties</b>               |           |                        |             |
| Vicat B50                               | 145       | °C                     | ISO 306     |
| HDT / A (1,8 MPa)                       | 133       | °C                     | ISO 75-1/-2 |
| <b>Rheological Properties</b>           |           |                        |             |
| Melt Index (MVR)                        | 8         | cm <sup>3</sup> /10min | ISO 1133    |
| MVR temperature                         | 300       | °C                     | -           |
| MVR load                                | 1.2       | kg                     | -           |
| Shrinkage (24h)                         | 0.5 - 0.8 | %                      | ISO 294-4   |
| <b>Physical Properties</b>              |           |                        |             |
| Density                                 | 1310      | kg/m <sup>3</sup>      | ISO 1183    |

### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.



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