

# Datasheet

## Durethan C38F 000000

PA 6-Copolymer, non-reinforced, extrusion, medium viscosity, no additives, high transparency, suitable for food-contact

ISO Shortname: ISO 16396-PA 6/IPDI,,E,S18-020

| Property  | Test Condition  | Unit                      | Standard       | guide value <sup>1</sup><br>d.a.m. cond. |
|---|-----------------|---------------------------|----------------|--|
| <b>Rheological properties</b>                   |                 |                           |                |  |
| C Melt volume-flow rate                         | 235 °C; 2.16 kg | cm <sup>3</sup> /(10 min) | ISO 1133-1     | 5  |
| <b>Thermal properties</b>                       |                 |                           |                |  |
| C Melting temperature                           | 10 °C/min       | °C                        | ISO 11357-1,-3 | 212                                      |
| <b>Electrical properties (23 °C/50 % r. h.)</b> |                 |                           |                |  |
| C Relative permittivity                         | 1 MHz           | -                         | IEC 60250      | 3  |
| C Volume resistivity                            |                 | Ohm·m                     | IEC 62631-3    | 1E11                                     |
| C Surface resistivity                           |                 | Ohm                       | IEC 62631-3    | 1E11                                     |
| C Electric strength                             | 1 mm            | kV/mm                     | IEC 60243-1    | 30                                       |
| <b>Other properties (23 °C)</b>                 |                 |                           |                |  |
| C Water absorption (Saturation value)           | Water at 23 °C  | %                         | ISO 62         | 10                                       |
| C Water absorption (Equilibrium value)          | 23 °C; 50 % RH  | %                         | ISO 62         | 3  |
| C Density                                       |                 | kg/m <sup>3</sup>         | ISO 1183       | 1130                                     |
| Bulk density                                    |                 | kg/m <sup>3</sup>         | ISO 60         | 700                                      |

### Notes

**1** Typical properties: these are not to be construed as specifications

**C** These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

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### Disclaimer

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Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the coloring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

Conditioning

Conditioning in accordance with ISO 1110 (70 °C; 62 % r.h.)

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