

Desmopan 385 S

300 grade series, ester / Shore hardness A 85 - 89

injection molding grade; hydrolysis-stabilised; high mechanical strength; Application; Technical parts; Screenpacks

ISO Shortname

| Property | Test Condition | Unit | Standard | Value | | |
|---|----------------|-------------------|---------------|-----------|----------|---------|
| | | | | drying | annealed | - |
| Mechanical properties (23 °C/50 % r. h.) | | | | | | |
| C shore hardness, method A | | - | ISO 868 | | | 86 |
| C shore hardness, method D | | - | ISO 868 | | | 32 |
| Ultimate tensile strength | 200 mm/min | MPa | DIN 53504 | | | 50,5 |
| Strain at break | 200 mm/min | % | DIN 53504 | | | 583 |
| Stress at 10 % strain | 200 mm/min | MPa | DIN 53504 | | | 2,1 |
| Stress at 50 % strain | 200 mm/min | MPa | DIN 53504 | | | 4,6 |
| Stress at 100 % strain | 200 mm/min | MPa | DIN 53504 | | | 5,7 |
| Stress at 300 % strain | 200 mm/min | MPa | DIN 53504 | | | 15,0 |
| C Compression set | 24 h; 70 °C | % | ISO 815 | | | 55 |
| C Compression set | 72 h; 23 °C | % | ISO 815 | | | 30 |
| C Abrasion resistance | | mm ³ | ISO 4649 | | | 30 |
| Impact resilience | | % | ISO 4662 | | | 42 |
| Tear propagation resistance | 500 mm/min | kN/m | ISO 34-1 | | | 70 |
| Thermal properties | | | | | | |
| Tensile storage modulus | -20 °C | MPa | ISO 6721-1,-4 | | | 186 |
| Tensile storage modulus | 20 °C | MPa | ISO 6721-1,-4 | | | 51 |
| Tensile storage modulus | 60 °C | MPa | ISO 6721-1,-4 | | | 37 |
| Other properties (23 °C) | | | | | | |
| C Density | | kg/m ³ | ISO 1183-1 | | | 1200 |
| Molding conditions | | | | | | |
| Injection molding-Melt temperature | | °C | - | 210 - 230 | | |
| Injection molding-Mold temperature | | °C | - | | | 20 - 40 |
| Maximum drying temperature | | °C | - | | | 80 |

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.

Impact properties: N = non-break, P = partial break, C = complete break



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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. Please note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mold/die, the processing conditions and 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.

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Publisher: Global Innovations - Polycarbonates

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