

Desmopan 9864DU

900 grade series, ether / Shore hardness D 60 - 64

injection molding grade; very good hydrolysis and microbial resistance; very good low-temperature impact strength; opaque; Cylindrical pellets; Application; Boot shells; Technical parts

ISO Shortname

| Property | Test Condition | Unit | Standard | typical Value | | |
|---|----------------|-------------------|-------------------------|---------------|----------|---------|
| | | | | drying | annealed | - |
| Mechanical properties (23 °C/50 % r. h.) | | | | | | |
| C shore hardness D | 1s | - | DIN ISO 7619-1 | | | 61 |
| Ultimate tensile strength | 200 mm/min | MPa | DIN 53504 | | | 54 |
| Strain at break | 200 mm/min | % | DIN 53504 | | | 424 |
| Stress at 10 % strain | 200 mm/min | MPa | DIN 53504 | | | 14 |
| Stress at 50 % strain | 200 mm/min | MPa | DIN 53504 | | | 20 |
| Stress at 100 % strain | 200 mm/min | MPa | DIN 53504 | | | 24 |
| Stress at 300 % strain | 200 mm/min | MPa | DIN 53504 | | | 37 |
| C Compression set | 24 h; 70 °C | % | DIN ISO 815-1, Method A | | | 47 |
| C Compression set | 72 h; 23 °C | % | DIN ISO 815-1 | | | 46 |
| C Abrasion resistance | | mm ³ | ISO 4649 method A | | | 28 |
| Rebound resilience | | % | ISO 4662 | | | 55 |
| Tear strength | 500 mm/min | kN/m | ISO 34-1 | | | 142 |
| Flexural modulus | 2 mm/min | MPa | ISO 178 | | | 310 |
| Thermal properties | | | | | | |
| Vicat softening temperature | 10 N; 120 °C/h | °C | ISO 306 | | | 165 |
| C Vicat softening temperature | 50 N; 50 °C/h | °C | ISO 306 | | | 83 |
| Tensile storage modulus | -20 °C | MPa | ISO 6721-1,-4 | | | 1280 |
| Tensile storage modulus | 20 °C | MPa | ISO 6721-1,-4 | | | 610 |
| Tensile storage modulus | 60 °C | MPa | ISO 6721-1,-4 | | | 220 |
| Other properties (23 °C) | | | | | | |
| C Density | | kg/m ³ | ISO 1183-1 | | | 1160 |
| Molding conditions | | | | | | |
| Injection molding-Melt temperature | | °C | - | 220 - 265 | | |
| Injection molding-Mold temperature | | °C | - | | | 40 - 60 |
| Drying Temperature | | °C | - | | | 120 |

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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Desmopan Typical value

The shown values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

Desmopan 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.

Desmopan No Medical-, Food Contact- and Cosmetic Applications

This product is not designated as "Medical Grade"[i] and therefore shall not be considered a candidate for the manufacture of a medical device or of intermediate products for medical devices, which are intended under normal use to be brought into direct contact with the patient's body (e.g., skin, body fluids or tissues, including indirect contact to blood)*. This product is also not designated for Food Contact[ii], including drinking water, or Cosmetic Applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or Cosmetic Applications, Covestro Aktiengesellschaft (COV-PUR-CO-TPU EMEA/LA) must be contacted in advance to provide its agreement to sell such product for such purpose. Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or Cosmetic Applications must be made solely by the purchaser of the product without relying upon any representations by Covestro Aktiengesellschaft (COV-PUR-CO-TPU EMEA/LA). [i] Please see the "Guidance on Use of Covestro Products in a Medical Application" document. [ii] As defined in Commission Regulation VO (EU) 1935/2004.

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