



# Desmopan 487

**400 grade series, ester / Shore hardness A 85 - 89**

injection molding grade; grease and oil-resistant; low compression set; good heat resistance; short cycle times; Application: Automotive engineering; Roller coating; Seals, membranes; Damping elements

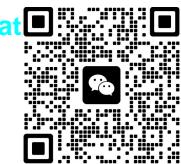
**ISO Shortname**

Property	Test Condition	Unit	Standard	Value	drying	annealed	-
<b>Mechanical properties (23 °C/50 % r. h.)</b>							
C Shore hardness, method A		-	ISO 868			86	
C Shore hardness, method D		-	ISO 868			34	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3			35	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3			500	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3			6.0	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3			14	
C Compression set	24 h; 70 °C	%	ISO 815			30	
C Compression set	72 h; 23 °C	%	ISO 815			15	
C Abrasion resistance		mm³	ISO 4649			20	
Impact resilience		%	ISO 4662			45	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1			70	
<b>Thermal properties</b>							
Torsional storage modulus	-20 °C	MPa	ISO 6721-2			46	
Torsional storage modulus	23 °C	MPa	ISO 6721-2			13	
Torsional storage modulus	70 °C	MPa	ISO 6721-2			9,6	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4			225	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4			61	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4			46	
<b>Other properties (23 °C)</b>							
C Density		kg/m³	ISO 1183			1210	
<b>Molding conditions</b>							
Injection molding-Melt temperature		°C	-		230 - 240		
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.

**Desmopan®**

ISO Dat





## Desmopan 487

### Disclaimer

#### Disclaimer for Sales products

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

#### Test values

Unless specified to the contrary, the values given have been established on standardised 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 colouring.

#### 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.

#### Disclaimer

All the information, documents and illustrations published on this website are the exclusive property of the Coatings and Colorants Business Group of Bayer AG. Permission for their use is given on the proviso that the copyright note appears on all copies, that only personal and not commercial use is made of the information, that the information is not altered in any way and that all illustrations on the website are used only in conjunction with the associated texts. The Coatings and Colorants Business Group provides no guarantee in respect of the information, documents and illustrations on the website. The Coatings and Colorants Business Group is not responsible for any damage of whatever nature that might arise from the use or existence of the website and the information, documents and illustrations it contains. The user bears full responsibility for all risks to him that might arise from the use of this website. The Coatings and Colorants Business Group reserves the right to amend or supplement the website at any time and without prior notice. The user of the website is responsible in full for the content and accuracy of all information that he sends to the Coatings and Colorants Business Group and for ensuring that the rights of third parties are not prejudiced.

---

Publisher: Business Development Plastics

Bayer MaterialScience AG,

D-51368 Leverkusen,

[www.bayermaterialscience.com](http://www.bayermaterialscience.com)

---

Page 2 of 2 pages

Desmopan®

ISO Dat

