



Desmopan W DP89056D

W8000 grade series, aliphatics / Shore hardness D 55 - 59

injection molding grade; no yellowing under the action of UV light; very good hydrolysis and microbial resistance; good low-temperature flexibility; high rebound resilience; low abrasion; colored applications in the automotive, sports and leisure sectors

ISO Shortname

Property	Test Condition	Unit	Standard	Value		
				drying	annealed	-
				according to		
				specifications		
Mechanical properties (23 °C/50 % r. h.)						
C shore hardness, method A		-	ISO 868		97	
C shore hardness, method D		-	ISO 868		56	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		43	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		320	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		20	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		43	
C Compression set	24 h; 70 °C	%	ISO 815		46	
C Abrasion resistance		mm³	ISO 4649		22	
Impact resilience		%	ISO 4662		51	
Flexural modulus	2 mm/min	MPa	ISO 178		250	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		700	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		298	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		193	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1110
Molding conditions						
Injection molding-Melt temperature		°C	-	240 - 260		
Injection molding-Mold temperature		°C	-			40 - 60
Maximum drying temperature		°C	-			110

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.

Disclaimer

Disclaimer for Developmental products

* This is a developmental product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damages, of whatever nature, arising out of such use. Commercialization and continued supply of this material are not assured. Its supply may be discontinued at any time.

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.

Desmopan®

ISO Data

