



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

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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.

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