



Desmopan W DP89043D

W8000 grade series, aliphatics / Shore hardness A 90 - 94

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		95	
C shore hardness, method D		-	ISO 868		43	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		39	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		717	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		12	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		18	
C Compression set	24 h; 70 °C	%	ISO 815		41	
C Abrasion resistance		mm³	ISO 4649		11	
Impact resilience		%	ISO 4662		56	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		96	
Flexural modulus	2 mm/min	MPa	ISO 178		80	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		73	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		46	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		31	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		230	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		143	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		101	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1080
Molding conditions						
Injection molding-Melt temperature		°C	-	210 - 230		
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.

