



Desmopan W DP89051D

W8000 grade series, aliphatics / Shore hardness D 50 - 54

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		96	
C shore hardness, method D		-	ISO 868		51	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		48	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		550	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		17	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		23	
C Compression set	24 h; 70 °C	%	ISO 815		46	
C Abrasion resistance		mm³	ISO 4649		17	
Impact resilience		%	ISO 4662		52	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		142	
Flexural modulus	2 mm/min	MPa	ISO 178		170	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		152	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		77	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		52	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		560	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		302	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		214	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1080
Molding conditions						
Injection molding-Melt temperature		°C	-	230 - 250		
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.