



Desmopan DP 9873D

900 grade series, ether / Shore hardness D 70 - 74

injection molding grade; very good hydrolysis and microbial resistance; very good low-temperature impact strength; Application; Boot shells; Injection molded engineering parts

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		98	
C shore hardness, method D		-	ISO 868		73	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		55	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		310	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		35	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		50	
C Compression set	24 h; 70 °C	%	ISO 815		92	
C Compression set	72 h; 23 °C	%	ISO 815		80	
Impact resilience		%	ISO 4662		45	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		200	
Flexural modulus	2 mm/min	MPa	ISO 178		910	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		733	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		475	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		156	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		1800	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		1285	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		616	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1190
Molding conditions						
Injection molding-Melt temperature		°C	-	225 - 235		
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.