



Desmopan DP 5080A

500 grade series, ether/ester / Shore hardness A 80 - 84

injection molding grade; improved microbial resistance; Improved hydrolysis resistance; Application; Seals, membranes; hard - soft systems

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		80	
C shore hardness, method D		-	ISO 868		29	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		28	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		650	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		4.0	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		9.0	
C Compression set	24 h; 70 °C	%	ISO 815		50	
C Compression set	72 h; 23 °C	%	ISO 815		20	
C Abrasion resistance		mm³	ISO 4649		70	
Impact resilience		%	ISO 4662		45	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		55	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		20	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		7,5	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		5,6	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		105	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		31	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		23	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1140
Molding conditions						
Injection molding-Melt temperature		°C	-	190 - 210		
Injection molding-Mold temperature		°C	-			20 - 40
Maximum drying temperature		°C	-			80

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.