



Desmopan 585

300 grade series, ester / Shore hardness A 85 - 89

injection molding grade; high mechanical strength; antimicrobial grade; hydrolysis-stabilised;
Application; Sports shoe soles

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		85	
C shore hardness, method D		-	ISO 868		32	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		40	
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		5.0	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		12	
C Compression set	24 h; 70 °C	%	ISO 815		55	
C Compression set	72 h; 23 °C	%	ISO 815		30	
C Abrasion resistance		mm³	ISO 4649		25	
Impact resilience		%	ISO 4662		40	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		70	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		68	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		15	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		9,9	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		53	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		13	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		8	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1200
Molding conditions						
Injection molding-Melt temperature		°C	-	210 - 230		
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.