



Desmopan DP 9659DU

900 grade series, ether / Shore hardness D 55 - 59

Extrusion- and injection molding grade; with special UV stabilizers; transparent up to 6 mm wall thickness; very good hydrolysis and microbial resistance; Application; Ski boot shells; Hoses, non-reinforced

ISO Shortname

Property	Test Condition	Unit	Standard	typical Value		
				drying	annealed	-
				according to specifications		
Mechanical properties (23 °C/50 % r. h.)						
C shore hardness, method A		-	ISO 868		97	
C shore hardness, method D		-	ISO 868		58	
Ultimate tensile strength	200 mm/min	MPa	DIN 53504		52,7	
Strain at break	200 mm/min	%	DIN 53504		324	
Stress at 10 % strain	200 mm/min	MPa	DIN 53504		10,9	
Stress at 50 % strain	200 mm/min	MPa	DIN 53504		19,6	
Stress at 100 % strain	200 mm/min	MPa	DIN 53504		25,4	
Stress at 300 % strain	200 mm/min	MPa	DIN 53504		31,2	
C Compression set	24 h; 70 °C	%	ISO 815		82	
C Compression set	72 h; 23 °C	%	ISO 815		37	
C Abrasion resistance		mm³	ISO 4649 method A		20	
Impact resilience		%	ISO 4662		29	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		89	
Flexural modulus	2 mm/min	MPa	ISO 178		165	
Thermal properties						
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		2000	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		502	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		128	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183-1			1160
Molding conditions						
Injection molding-Melt temperature		°C	-	220 - 235		
Injection molding-Mold temperature		°C	-			40 - 60
Extrusion-Melt temperature		°C	-	205 -235		
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.

Impact properties: N = non-break, P = partial break, C = complete break

