



Desmopan DP 9873DU

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

Extrusion- and 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	typical 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		71	
Ultimate tensile strength	200 mm/min	MPa	DIN 53504		53	
Strain at break	200 mm/min	%	DIN 53504		342	
Stress at 10 % strain	200 mm/min	MPa	DIN 53504		34	
Stress at 50 % strain	200 mm/min	MPa	DIN 53504		34	
Stress at 100 % strain	200 mm/min	MPa	DIN 53504		35	
Stress at 300 % strain	200 mm/min	MPa	DIN 53504		47	
C Compression set	24 h; 70 °C	%	ISO 815		61	
C Compression set	72 h; 23 °C	%	ISO 815		60	
C Abrasion resistance		mm³	ISO 4649 method A		56	
Impact resilience		%	ISO 4662		66	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		203	
Flexural modulus	2 mm/min	MPa	ISO 178		1040	
Thermal properties						
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		1490	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		1035	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		486	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183-1			1179
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.

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

