



Desmopan 955 U

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

Extrusion- and injection molding grade; with special UV stabilizers; very good hydrolysis and microbial resistance; very good low-temperature impact strength; Application; Ski boot shells; Hoses, non-reinforced; 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		97	
C shore hardness, method D		-	ISO 868		55	
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		400	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		20	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		35	
C Compression set	24 h; 70 °C	%	ISO 815		56	
C Compression set	72 h; 23 °C	%	ISO 815		38	
C Abrasion resistance		mm³	ISO 4649		40	
Impact resilience		%	ISO 4662		38	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		140	
Flexural modulus	2 mm/min	MPa	ISO 178		170	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		330	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		104	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		32	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		1080	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		371	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		48	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1160
Molding conditions						
Injection molding-Melt temperature		°C	-	215 - 235		
Injection molding-Mold temperature		°C	-			20 - 40
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.