Desmopan DP 9395A

900 grade series, ether / Shore hardness D 45 - 49

Extrusion- and injection molding grade; very good hydrolysis and microbial resistance; good low-temperature flexibility; Application; Pneumatic hoses; Cable sheathings; Profiles; 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		95	
C	shore hardness, method D		-	ISO 868		46	
C	Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		50	
C	Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		450	
C	Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		13	
C	Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		27	
C	Compression set	24 h; 70 °C	%	ISO 815		40	
C	Compression set	72 h; 23 °C	%	ISO 815		22	
C	Abrasion resistance		mm³	ISO 4649		30	
	Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		100	
Thermal properties							
	Torsional storage modulus	-20 °C	MPa	ISO 6721-2		209	
	Torsional storage modulus	23 °C	MPa	ISO 6721-2		39	
	Torsional storage modulus	70 °C	MPa	ISO 6721-2		19	
	Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		440	
	Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		104	
	Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		71	
Other properties (23 °C)							
C	Density		kg/m³	ISO 1183			1150
Molding conditions							
	Injection molding-Melt temperature		°C	-	210 -230		
	Injection molding-Mold temperature		°C	-			20 - 40
	Extrusion-Melt temperature		°C	-	200 -220		
	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.