Desmopan DP 6386A

600 grade series, ether / Shore hardness A 85 - 89

Extrusion- and injection molding grade; very good hydrolysis and microbial resistance; short cycle times; Application; Fire hoses; Injection molded engineering parts; hard - soft systems

ISO Shortname

	Property	Test Condition	Unit	Standard	Value drying	Value annealed	Value - according to specifications
Mechanical properties (23 °C/50 % r. h.)							
C	shore hardness, method A		-	ISO 868		85	
C	Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		24	
C	Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		725	
C	Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		6,8	
C	Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		11	
C	Compression set	24 h; 70 °C	%	ISO 815		37	
C	Compression set	72 h; 23 °C	%	ISO 815		17	
C	Abrasion resistance		mm³	ISO 4649		90	
	Impact resilience		%	ISO 4662		43	
	Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		40	
Thermal properties							
	Torsional storage modulus	-20 °C	MPa	ISO 6721-2		165	
	Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		170	
	Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		40	
	Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		29	
Other properties (23 °C)							
C	Density		kg/m³	ISO 1183			1120
Molding conditions							
	Injection molding-Melt temperature		°C	-	215 - 230		
	Injection molding-Mold temperature		°C	-			20
	Extrusion-Melt temperature		°C	-	185 - 210		

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.