



Desmopan DP 6045D

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

injection molding grade; with special UV stabilizers; very good hydrolysis and microbial resistance; very short cycle times; Application; Injection molded engineering parts; Ear-tags

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		94	
C shore hardness, method D		-	ISO 868		45	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		27	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		391	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		13,5	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		23	
C Compression set	24 h; 70 °C	%	ISO 815		56	
C Compression set	72 h; 23 °C	%	ISO 815		18	
C Abrasion resistance		mm³	ISO 4649		90	
Impact resilience		%	ISO 4662		39	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		50	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		455	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		155	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		91	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		542	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		153	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		89	
Molding conditions						
Injection molding-Melt temperature		°C	-	200 - 220		
Injection molding-Mold temperature		°C	-			20 - 30
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.