



Desmopan 460

400 grade series, ester / Shore hardness D 60 - 64

injection molding grade; grease and oil-resistant; low compression set; good heat resistance; high elasticity; short cycle times; Application; Automotive engineering; Technical parts; Bearing bushes

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		58	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		35	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		350	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		21	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		33	
C Compression set	24 h; 70 °C	%	ISO 815		35	
C Compression set	72 h; 23 °C	%	ISO 815		25	
C Abrasion resistance		mm³	ISO 4649		40	
Impact resilience		%	ISO 4662		35	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		150	
Flexural modulus	2 mm/min	MPa	ISO 178		170	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		710	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		128	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		43	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		1760	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		446	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		130	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1220
Molding conditions						
Injection molding-Melt temperature		°C	-	235 - 245		
Injection molding-Mold temperature		°C	-			20 - 40
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.