



Desmopan 481

400 grade series, ester / Shore hardness A 80 - 84

injection molding grade; free from plasticizers; grease and oil-resistant; low compression set; high elasticity; good heat resistance; Easy release; Application; Roller coating; Seals, membranes; Automotive engineering

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		80	
C shore hardness, method D		-	ISO 868		30	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		30	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		600	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		5.0	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		9.0	
C Compression set	24 h; 70 °C	%	ISO 815		35	
C Compression set	72 h; 23 °C	%	ISO 815		22	
C Abrasion resistance		mm³	ISO 4649		25	
Impact resilience		%	ISO 4662		48	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		45	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		17	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		7,2	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		6,7	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		106	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		33	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		29	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1200
Molding conditions						
Injection molding-Melt temperature		°C	-	225 - 235		
Injection molding-Mold temperature		°C	-			20 - 40
Maximum drying temperature		°C	-			80

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.