



Desmopan 345

300 grade series, ester / Shore hardness D 45 - 49

injection molding grade; with high mechanical strength for articles subject to wear; Application; 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		47	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		52	
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		12	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		27	
C Compression set	24 h; 70 °C	%	ISO 815		42	
C Compression set	72 h; 23 °C	%	ISO 815		25	
C Abrasion resistance		mm³	ISO 4649		30	
Impact resilience		%	ISO 4662		35	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		100	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		230	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		47	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		22	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		970	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		186	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		95	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1220
Molding conditions						
Injection molding-Melt temperature		°C	-	210 - 235		
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.