



Desmopan 790

700 grade series, carbonates / Shore hardness A 90 - 94

Extrusion- and injection molding grade; high mechanical strength; Application; Toothed belts; Profiles; 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		92	
C shore hardness, method D		-	ISO 868		40	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		55	
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		10	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		25	
C Compression set	24 h; 70 °C	%	ISO 815		50	
C Compression set	72 h; 23 °C	%	ISO 815		25	
C Abrasion resistance		mm ³	ISO 4649		30	
Impact resilience		%	ISO 4662		32	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		85	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		200	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		22	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		12	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		630	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		100	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		53	
Other properties (23 °C)						
C Density		kg/m ³	ISO 1183			1210
Molding conditions						
Injection molding-Melt temperature		°C	-	210 - 230		
Injection molding-Mold temperature		°C	-			20 - 40
Extrusion-Melt temperature		°C	-	200 - 220		
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.

