



Desmopan 359

300 grade series, ester / Shore hardness D 55 - 59

injection molding grade; with high mechanical strength for articles subject to wear; Application; Injection molded engineering parts; Roller tires; Shoe heels; Ski boot shells

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		59	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		50	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		400	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		20	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		40	
C Compression set	24 h; 70 °C	%	ISO 815		60	
C Compression set	72 h; 23 °C	%	ISO 815		30	
C Abrasion resistance		mm³	ISO 4649		35	
Impact resilience		%	ISO 4662		35	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		160	
Flexural modulus	2 mm/min	MPa	ISO 178		180	
Thermal properties						
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		555	
Torsional storage modulus	23 °C	MPa	ISO 6721-2		105	
Torsional storage modulus	70 °C	MPa	ISO 6721-2		38	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		1610	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		342	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		120	
Other properties (23 °C)						
C Density		kg/m³	ISO 1183			1230
Molding conditions						
Injection molding-Melt temperature		°C	-	220 - 240		
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.