



Desmopan 453

400 grade series, ester / Shore hardness D 50 - 54

injection molding grade; grease and oil-resistant; low compression set; good wear resistance; Application; Injection molded engineering parts; Automotive engineering; Coupling elements

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		52	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		38	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		475	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		17	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		29	
C Compression set	24 h; 70 °C	%	ISO 815		27	
C Compression set	72 h; 23 °C	%	ISO 815		15	
C Abrasion resistance		mm³	ISO 4649		32	
Impact resilience		%	ISO 4662		30	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		180	
Thermal properties						
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		1780	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		240	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		110	
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.

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