

# Desmopan DP 1490A

100 grade series, ester / Shore hardness A 90 - 94

Extrusion- and injection molding grade; suitable for extrusion blow molding; high melt stability; very large processing window; Application; Bellows; Injection molded engineering parts; O-strings; Hoses, non-reinforced

ISO Shortname

Property	Test Condition	Unit	Standard	Value	
				drying	annealed
<b>Mechanical properties (23 °C/50 % r. h.)</b>					
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		50
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		8,5
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		18
C Compression set	24 h; 70 °C	%	ISO 815		47
C Compression set	72 h; 23 °C	%	ISO 815		24
C Abrasion resistance		mm <sup>3</sup>	ISO 4649		35
Impact resilience		%	ISO 4662		30
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		93
<b>Thermal properties</b>					
Torsional storage modulus	-20 °C	MPa	ISO 6721-2		260
Torsional storage modulus	23 °C	MPa	ISO 6721-2		28
Torsional storage modulus	70 °C	MPa	ISO 6721-2		14
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		1070
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		106
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		62
<b>Other properties (23 °C)</b>					
C Density		kg/m <sup>3</sup>	ISO 1183		1220
<b>Molding conditions</b>					
Injection molding-Melt temperature		°C	-	200 - 220	
Injection molding-Mold temperature		°C	-		20
Extrusion-Melt temperature		°C	-	185 - 210	
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.

