



# 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	b.o. ISO 527-1,-3		50	
C Strain at break	200 mm/min	%	b.o. ISO 527-1,-3		475	
C Stress at 100 % strain	200 mm/min	MPa	b.o. ISO 527-1,-3		8,5	
C Stress at 300 % strain	200 mm/min	MPa	b.o. 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 1183-1			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.

Impact properties: N = non-break, P = partial break, C = complete break



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## Disclaimer

Disclaimer for Developmental products

\* This is a developmental product. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason, no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damage, of whatever nature, arising out of such use.

Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Please note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mold/die, the processing conditions and coloring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, the prescribed processing temperatures should not be substantially exceeded.

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