



Desmopan W DP85085A

W8000 grade series, aliphatics / Shore hardness A 85 - 89

injection molding grade; no yellowing under the action of UV light; improved microbial resistance; good low-temperature flexibility; Improved hydrolysis resistance; Application; automotive interior applications

ISO Shortname

Property	Test Condition	Unit	Standard	Value	
Mechanical properties (23 °C/50 % r. h.)					
C Shore hardness, method A		-	ISO 868	85	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3	32	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3	880	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3	6.0	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3	9.5	
C Compression set	24 h; 70 °C	%	ISO 815	42	
C Compression set	72 h; 23 °C	%	ISO 815	18	
C Abrasion resistance		mm³	ISO 4649	28	
Impact resilience		%	ISO 4662	63	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1	75	
Thermal properties					
Torsional storage modulus	-20 °C	MPa	ISO 6721-2	62	
Torsional storage modulus	23 °C	MPa	ISO 6721-2	22	
Torsional storage modulus	70 °C	MPa	ISO 6721-2	15	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4	207	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4	86	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4	55	
Other properties (23 °C)					
C Density		kg/m³	ISO 1183	1130	
Molding conditions					
Injection molding-Melt temperature		°C	-	180-210	
Injection molding-Mold temperature		°C	-		20 - 40
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 **Desmopan** according to ISO 10350.

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 damages, of whatever nature, arising out of such use. Commercialization and continued supply of this material are not assured. Its supply may be discontinued at any time.

Test values

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

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. Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.

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