Desmopan DP 9370AU

900 grade series, ether / Shore hardness A 65 - 79

Extrusion- and injection molding grade; free from plasticizers; with special UV stabilizers; very good hydrolysis and microbial resistance; good low-temperature flexibility; high moisture vapor transmission rate; Application; breathable films; Films; Sports shoe soles; hard - soft systems

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		70	
C	Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		25	
C	Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		800	
C	Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		2,4	
C	Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		4,3	
C	Compression set	24 h; 70 °C	%	ISO 815		49	
C	Compression set	72 h; 23 °C	%	ISO 815		22	
C	Abrasion resistance		mm³	ISO 4649		69	
	Impact resilience		%	ISO 4662		63	
	Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		39	
Thermal properties							
	Torsional storage modulus	-20 °C	MPa	ISO 6721-2		37	
	Torsional storage modulus	23 °C	MPa	ISO 6721-2		4,5	
	Torsional storage modulus	70 °C	MPa	ISO 6721-2		3,2	
Other properties (23 °C)							
C	Density		kg/m³	ISO 1183			1060
Molding conditions							
	Injection molding-Melt temperature		°C	-	190 - 210		
	Injection molding-Mold temperature		°C	-			20 - 40
	Extrusion-Melt temperature		°C	-	175 - 210		

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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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 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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