



Desmopan KA 8417

Impact modified Ester grades / Shore hardness D 65 - 69

injection molding grade; modified with ABS; good low-temperature flexibility; good wear resistance;
Application; Ski boot shells

ISO Shortname

Property	Test Condition	Unit	Standard	Value	
Mechanical properties (23 °C/50 % r. h.)					
C Shore hardness, method A		-	ISO 868	98	
C Shore hardness, method D		-	ISO 868	68	
C Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3	67	
C Elongation at break	200 mm/min	%	acc. ISO 527-1,-3	405	
C Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3	31	
C Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3	48	
C Abrasion resistance		mm ³	ISO 4649	30	
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1	190	
Flexural modulus	2 mm/min	MPa	ISO 178	600	
Thermal properties					
Torsional storage modulus	-20 °C	MPa	ISO 6721-2	895	
Torsional storage modulus	23 °C	MPa	ISO 6721-2	311	
Torsional storage modulus	70 °C	MPa	ISO 6721-2	93	
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4	1980	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4	825	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4	218	
Other properties (23 °C)					
C Density		kg/m ³	ISO 1183	1180	
Molding conditions					
Injection molding-Melt temperature		°C	-	225 - 240	
Injection molding-Mold temperature		°C	-		40 - 60
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.

Disclaimer

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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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