

Desmopan 150

100 grade series, ester / Shore hardness D 50 - 54

injection molding grade; with high mechanical strength for articles subject to wear; Cylindrical pellets; opaque to translucent; Application; Roller tires; Coupling elements; Shoe heels

ISO Shortname

Property	Test Condition	Unit	Standard	Value		
				drying	annealed	-
Mechanical properties (23 °C/50 % r. h.)						
C shore hardness, method A		-	ISO 868			96
C shore hardness, method D		-	ISO 868			48
Ultimate tensile strength	200 mm/min	MPa	DIN 53504			58,0
Strain at break	200 mm/min	%	DIN 53504			430
Stress at 10 % strain	200 mm/min	MPa	DIN 53504			7,4
Stress at 50 % strain	200 mm/min	MPa	DIN 53504			14,4
Stress at 100 % strain	200 mm/min	MPa	DIN 53504			17,9
Stress at 300 % strain	200 mm/min	MPa	DIN 53504			38,6
C Compression set	24 h; 70 °C	%	ISO 815			50
C Compression set	72 h; 23 °C	%	ISO 815			25
C Abrasion resistance		mm ³	ISO 4649			30
Impact resilience		%	ISO 4662			30
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1			120
Flexural modulus	2 mm/min	MPa	ISO 178			130
Thermal properties						
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4			1260
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4			186
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4			70
Other properties (23 °C)						
C Density		kg/m ³	ISO 1183-1			1240
Molding conditions						
Injection molding-Melt temperature		°C	-	210-230		
Injection molding-Mold temperature		°C	-			20 - 40
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.

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

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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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Publisher: Global Innovations - Polycarbonates

Bayer MaterialScience AG,

D-51368 Leverkusen,

www.bayermaterialscience.com