Desmopan 150

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

Injection molding grade; with high mechanical strength for articles subject to wear; Application; Roller tires; Coupling elements; Shoe heels

Property	Test condition	Unit	Standard	Typical Value
Mechanical properties (23 ºC)				
Shore hardness, method A			ISO 868	96
Shore hardness, method D			ISO 868	52
Stress at 100% strain	200 mm/min	MPa	ISO 527 -1, -3	14
Stress at 300% strain	200 mm/min	MPa	ISO 527 -1, -3	27
Ultimate tensile strength	200 mm/min	MPa	ISO 527 -1, -3	52
Elongation at break	200 mm/min	%	ISO 527 -1, -3	480
Compression set	24 h, 70 ºC	%	ISO 815	50
Compression set	72 h, 23 ºC	%	ISO 815	25
Abrasion resistance		mm^3	ISO 4649	45
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
Other properties (23 ºC)				
Density		Kg/m^3	ISO 1183	1240
Moulding conditions				
Injection moulding-Melt temperature		ºC		190-220
Injection moulding-Mould temperature		ºC		20-40
Maximum drying Temperature		ºC		110

Disclaimer

Disclaimer for Sales products

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Typical values

Unless specified to the contrary, the values given are typical values which have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding material specification or warranted properties. Values can be varied to a considerable extent depending on the design of the mold/die, the processing conditions and coloring of the product.

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 Material 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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