Desmopan DP 3972AW

300 grade series, ester / Shore hardness A 70-72

Injection molding grade: good wear resistance,

Application-For thicker out sole like street shoes, safety shoes etc.

Property	Test condition	Unit	Standard	Typical Value
Mechanical properties (23 ºC)				
Shore hardness, method A			ISO 868	71
Stress at 100% strain	200 mm/min	MPa	ISO 527 -1, -3	2.8
Stress at 300% strain	200 mm/min	MPa	ISO 527 -1, -3	4.5
Ultimate tensile strength	200 mm/min	MPa	ISO 527 -1, -3	24
Elongation at break	200 mm/min	%	ISO 527 -1, -3	850
Compression set	24 h, 70 ºC	%	ISO 815	60
Compression set	72 h, 23 ºC	%	ISO 815	22
Abrasion resistance		mm³	ISO 4649	70
Impact resilience		%	ISO 4662	65
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1	40
Other properties (23 ºC)				
Density		Kg/m³	ISO 1183	1150
Moulding conditions				
Injection moulding-Melt temperature		ºC		150-170
Injection moulding-Mould temperature		ºC		20-40
Maximum drying Temperature		ºC		80

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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Publisher: Research & Development – Thermoplastic Polyurethane APAC

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