Desmopan 345

300 grade series, ester / Shore hardness D 45-49

Injection molding grade; high mechanical strength;
Application; articles subject to wear, engineering parts

Mechanical properties (23 ºC)

Property	Test condition	Unit	Standard	Typical Value
Shore hardness, method A			ISO 868	95
Shore hardness, method D			ISO 868	46
Stress at 100% strain	200 mm/min	MPa	ISO 527 -1, -3	9
Stress at 300% strain	200 mm/min	MPa	ISO 527 -1, -3	20
Ultimate tensile strength	200 mm/min	MPa	ISO 527 -1, -3	50
Elongation at break	200 mm/min	%	ISO 527 -1, -3	500
Compression set	24 h, 70 ºC	%	ISO 815	42
Compression set	72 h, 23 ºC	%	ISO 815	25
Abrasion resistance		mm^3	ISO 4649	35
Impact resilience		%	ISO 4662	45
Tear propagation resistance	500 mm/min	kN/m	ISO 34-1	100
Flexural Modulus	2 mm/min	Mpa	ISO 178	70

Other properties (23 ºC)

Density	Kg/m^3	ISO 1183	1230

Moulding conditions

Injection moulding-Melt temperature	ºC		175-210
Injection moulding-Mould temperature	ºC		20-40
Maximum drying Temperature	ºC		90

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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