Desmopan 385 S

300 grade series, ester / Shore hardness A 86 - 89 injection molding grade: high mechanical strength; improved hydrolysis resistance

ISO Shortname

	Property	Test Condition	Unit	Standard	Value drying according to specifications	Value annealed	Value -
Mechanical properties (23 °C/50 % r.h.)							
C	shore hardness, method A		-	ISO 868		85	
C	shore hardness, method D		-	ISO 868		32	
C	Ultimate tensile strength	200 mm/min	MPa	acc. ISO 527-1,-3		40	
C	Elongation at break	200 mm/min	%	acc. ISO 527-1,-3		450	
C	Stress at 100 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		6.0	
C	Stress at 300 % strain	200 mm/min	MPa	acc. ISO 527-1,-3		17	
C	Compression set	24 h; 70 °C	%	ISO 815		55	
C	Compression set	72 h; 23 °C	%	ISO 815		30	
C	Abrasion resistance		mm³	ISO 4649		30	
	Impact resilience		%	ISO 4662		42	
	Tear propagation resistance	500 mm/min	kN/m	ISO 34-1		70	
Thermal properties							
	Torsional storage modulus	-20 °C	MPa	ISO 6721-2		32	
	Torsional storage modulus	23 °C	MPa	ISO 6721-2		12	
	Torsional storage modulus	70 °C	MPa	ISO 6721-2		8,7	
Other properties (23 °C)							
C	Density		kg/m³	ISO 1183			1200
Molding conditions							
	Injection molding-Melt temperature		°C	-	210 - 230		
	Injection molding-Mold temperature		°C	-			20 - 40

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Disclaimer

Disclaimer for Sales products

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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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