

# Desmopan 5080A

500 grade series, ether/ester / Shore hardness A 80 - 84

injection molding grade; improved microbial resistance; Improved hydrolysis resistance; Application; Seals, membranes; hard - soft systems

## ISO Shortname

Property	Test Condition	Unit	Standard	typical Value		
				drying	annealed	-
<b>Mechanical properties (23 °C/50 % r. h.)</b>						
C shore hardness A	1s	-	DIN ISO 7619-1			80
C shore hardness D	1s	-	DIN ISO 7619-1			29
Ultimate tensile strength	200 mm/min	MPa	DIN 53504			23,8
Strain at break	200 mm/min	%	DIN 53504			701
Stress at 10 % strain	200 mm/min	MPa	DIN 53504			1,5
Stress at 50 % strain	200 mm/min	MPa	DIN 53504			3,8
Stress at 100 % strain	200 mm/min	MPa	DIN 53504			5,0
Stress at 300 % strain	200 mm/min	MPa	DIN 53504			8,6
C Compression set	24 h; 70 °C	%	DIN ISO 815-1, Method A			24
C Compression set	72 h; 23 °C	%	DIN ISO 815-1			20
C Compression set	24 h; 70 °C	%	DIN ISO 815-1, Method C			19
C Abrasion resistance		mm <sup>3</sup>	ISO 4649 method A			70
Rebound resilience		%	ISO 4662			45
Tear strength	500 mm/min	kN/m	ISO 34-1			55
<b>Thermal properties</b>						
Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4			105
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4			31
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4			23
<b>Other properties (23 °C)</b>						
C Density		kg/m <sup>3</sup>	ISO 1183-1			1140
<b>Molding conditions</b>						
Injection molding-Melt temperature		°C	-	190 - 210		
Injection molding-Mold temperature		°C	-			20 - 40
Maximum drying temperature		°C	-			80

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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## Disclaimer

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 **Desmopan<sup>®</sup>**

ISO Datasheet