

# Desmopan 1080A

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ISO Shortname TPU-ARES

Property	Test Condition	Unit	Standard	typical Value		
				drying	annealed	-

according to specifications

## Mechanical properties (23 °C/50 % r. h.)

C Shore hardness A	1s	-	DIN ISO 7619-1		80	
Ultimate tensile strength	200 mm/min	MPa	DIN 53504		35	
Strain at break	200 mm/min	%	DIN 53504		750	
Stress at 10 % strain	200 mm/min	MPa	DIN 53504		1,2	
Stress at 100 % strain	200 mm/min	MPa	DIN 53504		4,0	
Stress at 300 % strain	200 mm/min	MPa	DIN 53504		8	
C Compression set	24 h; 70 °C	%	DIN ISO 815-1, Method A		36	
C Compression set	72 h; 23 °C	%	DIN ISO 815-1		22	
C Compression set	24 h; 70 °C	%	DIN ISO 815-1, Method C		27	
C Abrasion resistance		mm <sup>3</sup>	ISO 4649 method A		35	
Rebound resilience		%	ISO 4662		44	
Tear strength	500 mm/min	kN/m	ISO 34-1		56	

## Thermal properties

Tensile storage modulus	-20 °C	MPa	ISO 6721-1,-4		170	
Tensile storage modulus	20 °C	MPa	ISO 6721-1,-4		34	
Tensile storage modulus	60 °C	MPa	ISO 6721-1,-4		24	

## Other properties (23 °C)

C Density		kg/m <sup>3</sup>	ISO 1183-1			1206
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## Recommended processing and drying conditions

Injection molding - Melt temperature		°C	-	185 - 200		
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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Covestro AG  
Business Unit Polyurethanes  
Kaiser-Wilhelm-Allee 60  
51373 Leverkusen  
Germany  
[www.TPU.covestro.com](http://www.TPU.covestro.com)  
[www.covestro.com](http://www.covestro.com)

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 **Desmopan<sup>®</sup>**

ISO Datasheet