

CAMPUS® Datasheet

Desmopan® 9392A - TPU
Covestro Deutschland AG



Product Texts

- Extrusion- and injection molding grade
- with special UV stabilizers
- very good hydrolysis and microbial resistance
- good low-temperature flexibility

Application

- Hoses
- non-reinforced
- Cable sheathings
- Profiles
- Technical parts

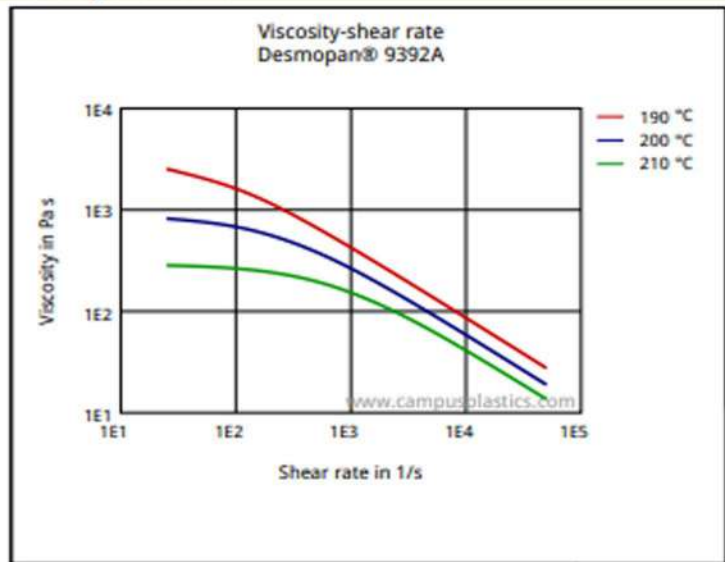
Mechanical properties	Value	Unit	Test Standard
Compression set at 70 °C, 24h	40	%	ISO 815
Tear strength	85	kN/m	ISO 34-1
Abrasion resistance	20	mm ³	ISO 4649
Shore A hardness, 3s	92	-	ISO 7619-1
Shore D hardness, 15s	42	-	ISO 7619-1
Other properties	Value	Unit	Test Standard
Density	1150	kg/m ³	ISO 1183
Rheological calculation properties	Value	Unit	Test Standard
Density of melt	980	kg/m ³	-
Thermal conductivity of melt	0.133	W/(m K)	-
Spec. heat capacity melt	1700	J/(kg K)	-
Eff. thermal diffusivity	8E-8	m ² /s	-
Ejection temperature	50	°C	-



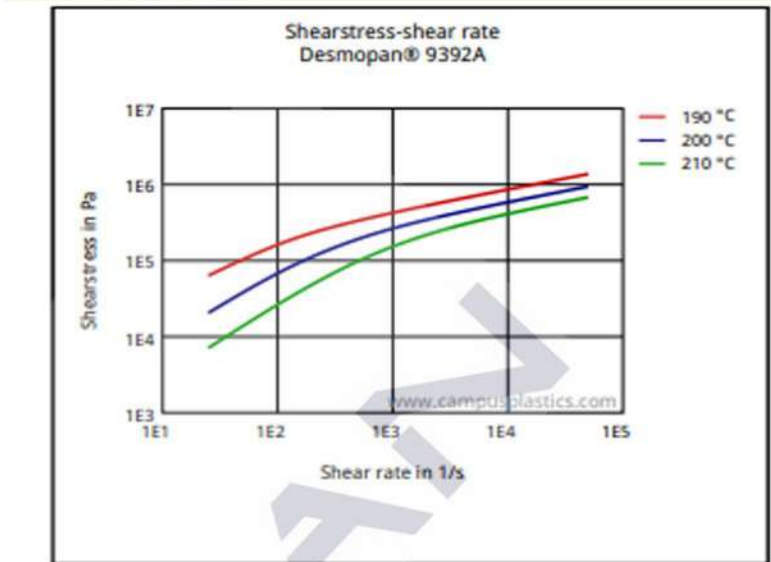
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Diagrams

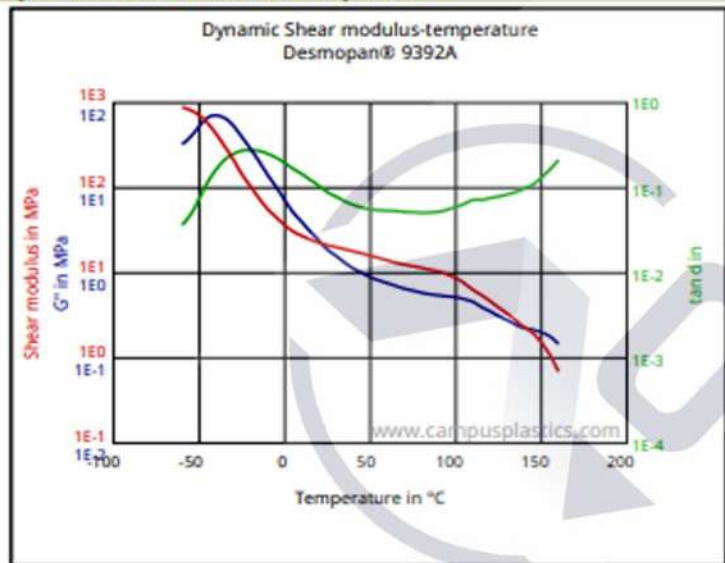
Viscosity-shear rate



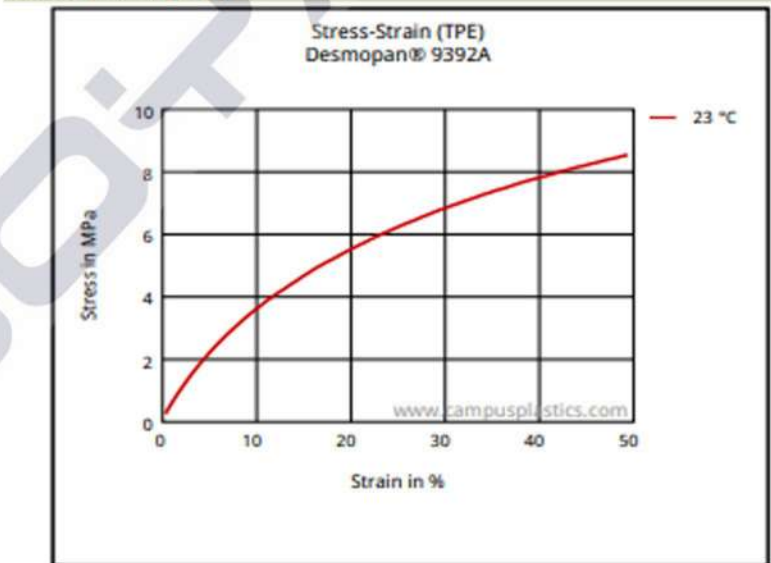
Shearstress-shear rate



Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PREPROCESSING
Max. water content: 0.05 %
Max. drying temperature: 80 °C
Drying time:
Dry air dryer 1-2 h

PROCESSING



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Melt temperature: 210-230 °C
Mold temperature: 20-40 °C

Other extrusion

Preprocessing	
Max. Water content	≤0.05 %
Drying temperature	70-110 °C
Dry air dryer	1-2 h
Processing	
Melt temperature	195-215 °C

Profile extrusion

Preprocessing	
Max. Water content	≤0.05 %
Drying temperature	70-110 °C
Dry air dryer	1-2 h
Processing	
Melt temperature	195-215 °C

Typical value

These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

General

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro.

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For further information on the use of Covestro products in Medical Applications, please request from your sales support contact our Guidance document: GUIDANCE ON USE OF COVESTRO PRODUCTS IN A MEDICAL APPLICATION.



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