



Desmopan 460

TPU

Covestro Deutschland AG

- Injection molding grade
- grease and oil-resistant
- low compression set
- good heat resistance
- high elasticity

Application:

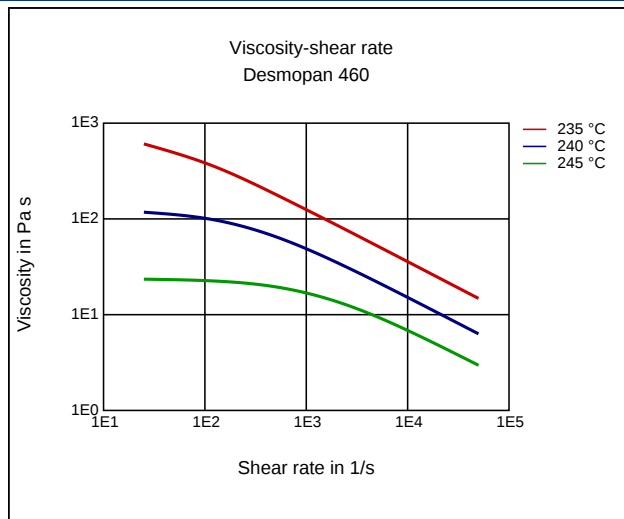
- Automotive engineering
- Technical parts
- Bearing bushes

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	14.8	MPa	ISO 527
Stress at 100% Elongation	24	MPa	ISO 527
Stress at 300% Elongation	32	MPa	ISO 527
Stress at Break TPE	41	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	33	%	ISO 815
Tear strength	150	kN/m	ISO 34-1
Abrasion resistance	40	mm ³	ISO 4649
Shore Hardness A (15s)	97	-	ISO 868
Shore Hardness D (15s)	59	-	ISO 868

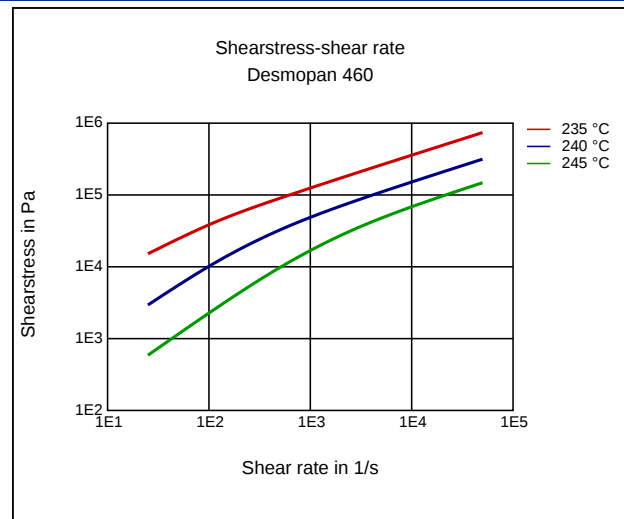
Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1220	kg/m ³	ISO 1183

Diagrams

Viscosity-shear rate



Shearstress-shear rate

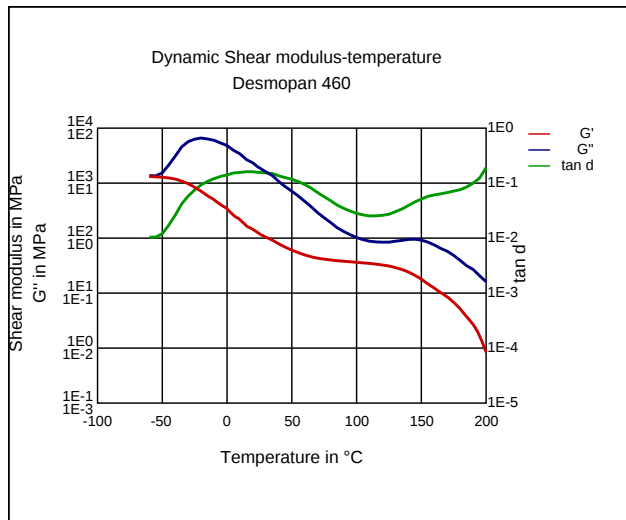


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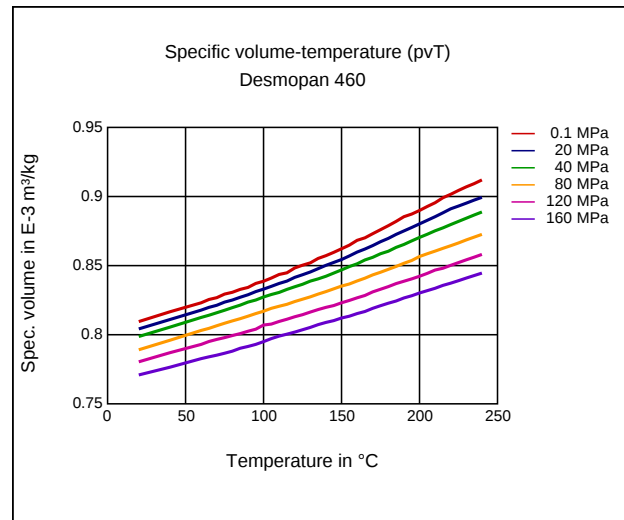
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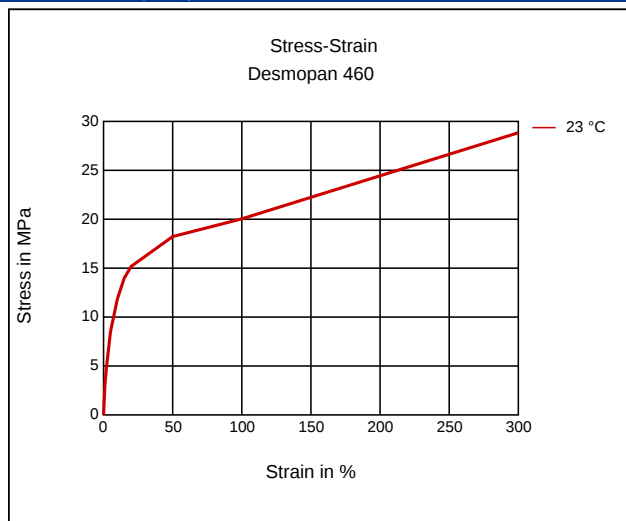
Dynamic Shear modulus-temperature



Specific volume-temperature (pvT)



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Release agent

Injection Molding

PREPROCESSING

Max. water content: 0.05 %
Max. drying temperature: 110 °C
Drying time:
Dry air dryer 1-2 h

PROCESSING

Melt temperature: 230-250 °C
Mold temperature: 20-40 °C

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Other Extrusion

Preprocessing	
Max. Water content	≤0.05 %
Drying temperature	70-110 °C
Dry air dryer	1-2 h
Processing	
Melt temperature	170-190 °C

Profile extrusion

Preprocessing	
Max. Water content	≤0.05 %
Drying temperature	70-110 °C
Dry air dryer	1-2 h
Processing	
Melt temperature	170-190 °C