

Desmopan 460

TPU

Covestro Deutschland AG

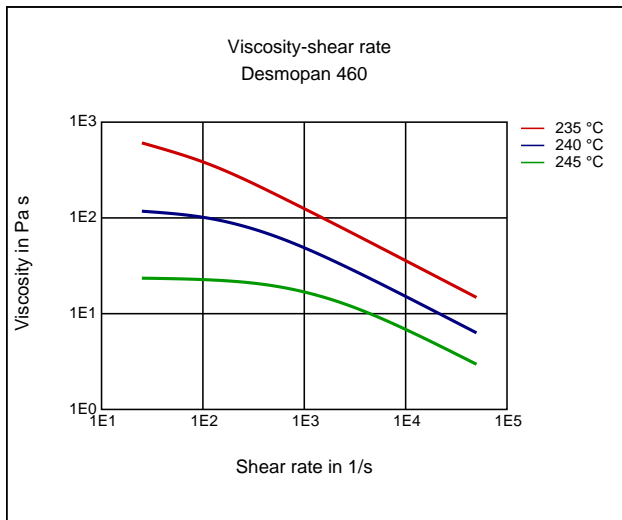
- Injection molding grade
- grease and oil-resistant
- low compression set
- good heat resistance
- high elasticity
- Application:
 - Automotive engineering
 - Technical parts
 - Bearing bushes

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

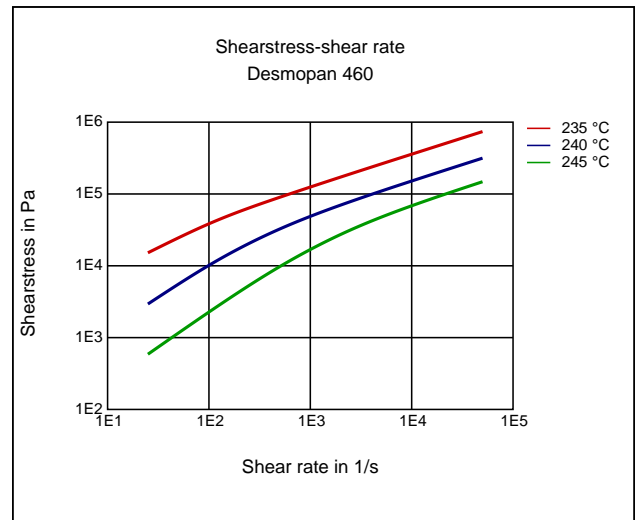
Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1220	kg/m ³	ISO 1183

Diagrams

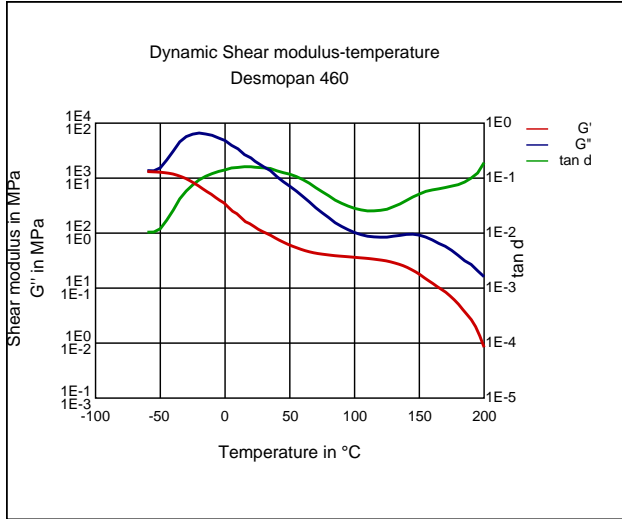
Viscosity-shear rate



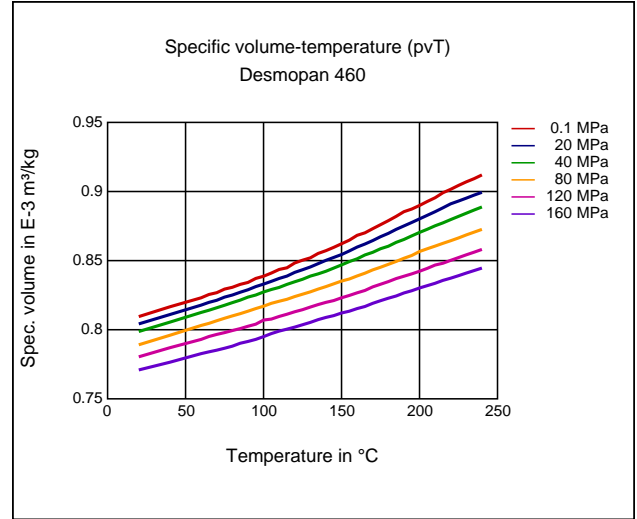
Shearstress-shear rate



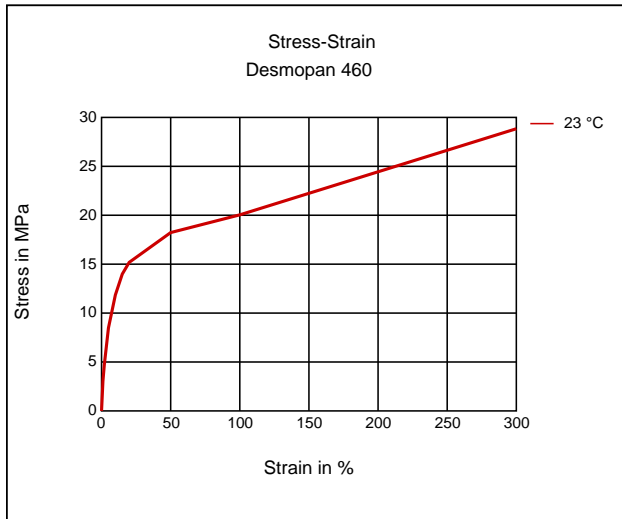
Dynamic Shear modulus-temperature



Specific volume-temperature (pVT)



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding

Delivery form

Pellets

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

Additives

Release agent

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

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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