



Desmopan 5080A

TPU

Covestro Deutschland AG

- Injection molding grade
 - improved microbial resistance
 - Improved hydrolysis resistance
- Application:
- Seals, membranes
 - hard - soft systems

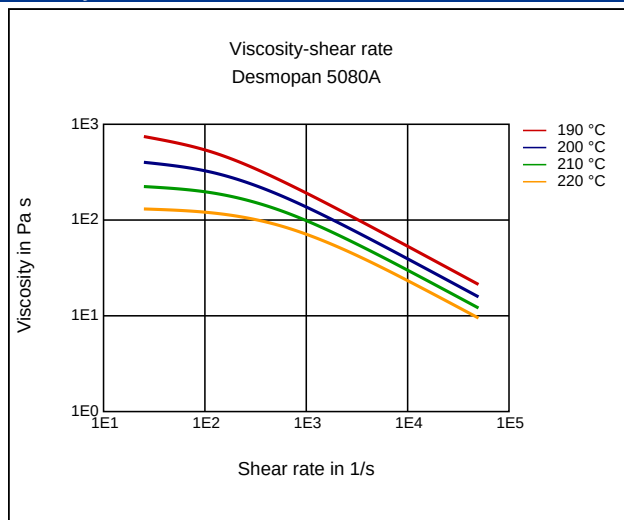
Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	1.5	MPa	ISO 527
Stress at 100% Elongation	5	MPa	ISO 527
Stress at 300% Elongation	8.6	MPa	ISO 527
Stress at Break TPE	22	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	24	%	ISO 815
Tear strength	55	kN/m	ISO 34-1
Abrasion resistance	70	mm ³	ISO 4649
Shore Hardness A (15s)	80	-	ISO 868
Shore Hardness D (15s)	29	-	ISO 868

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1140	kg/m ³	ISO 1183

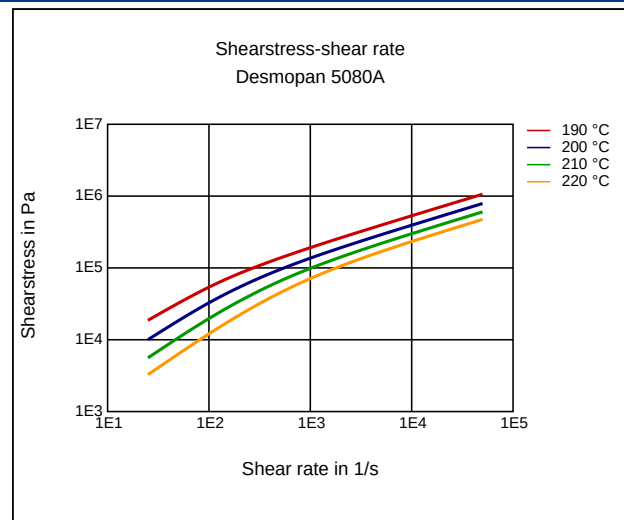
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	190 - 210	°C	-
Mold temperature	20 - 40	°C	-

Diagrams

Viscosity-shear rate



Shearstress-shear rate

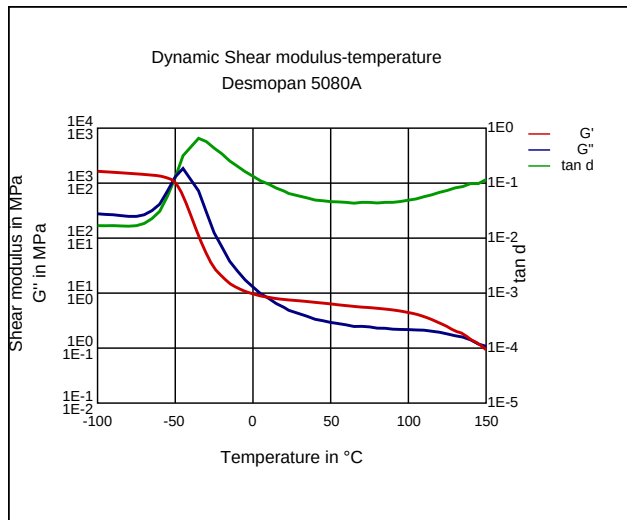


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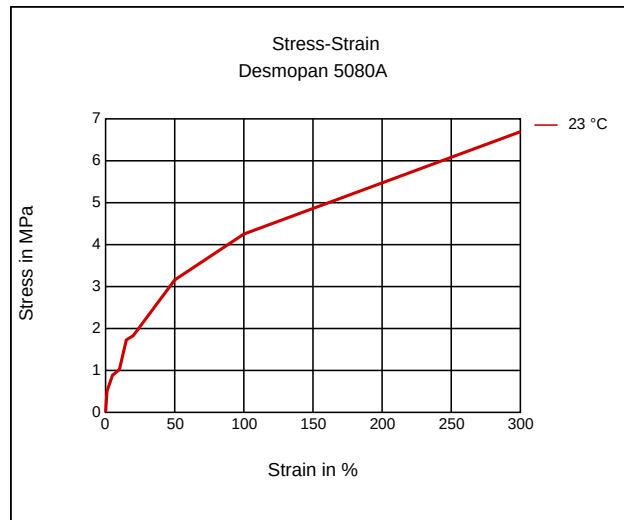
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Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding

Injection Molding

PREPROCESSING

Max. water content: 0.05 %

Max. drying temperature: 80 °C

Drying time:

Dry air dryer 1-2 h

PROCESSING

Melt temperature: 190-210 °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 190-210 °C

Profile extrusion

Preprocessing

Max. Water content ≤0.05 %

Drying temperature 70-110 °C

Dry air dryer 1-2 h

Processing

Melt temperature 190-210 °C