

Desmopan 5080A

TPU

Covestro Deutschland AG

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

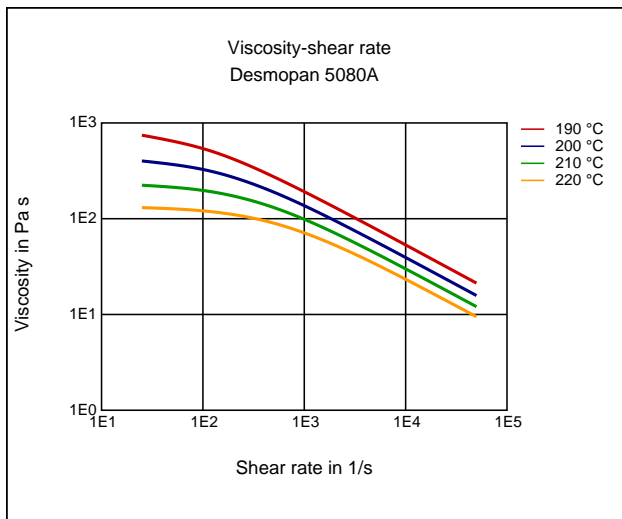
Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	1.5	MPa	ISO 527
Stress at 100% Elongation	5	MPa	ISO 527
Stress at 300% Elongation	8.6	MPa	ISO 527
Stress at Break TPE	22	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °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

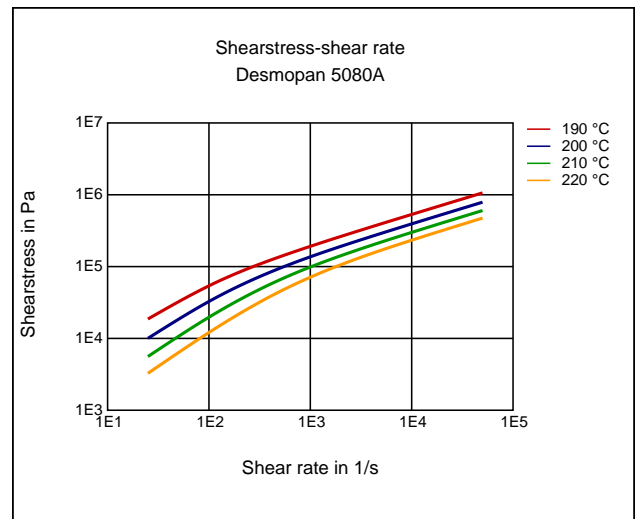
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	190 - 210	°C	-
Mold temperature	20 - 40	°C	-

Diagrams

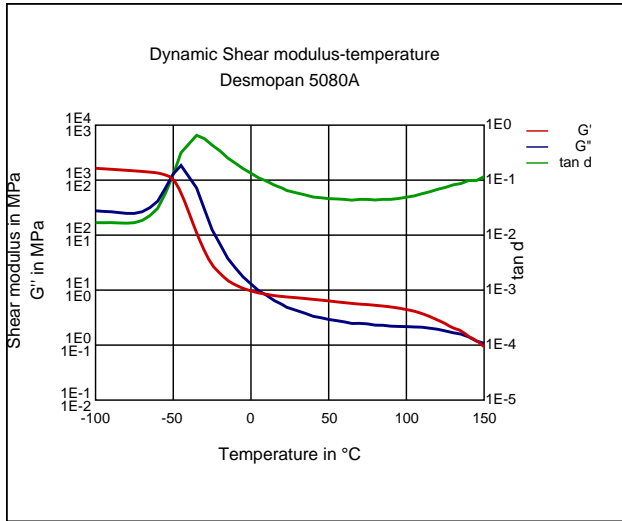
Viscosity-shear rate



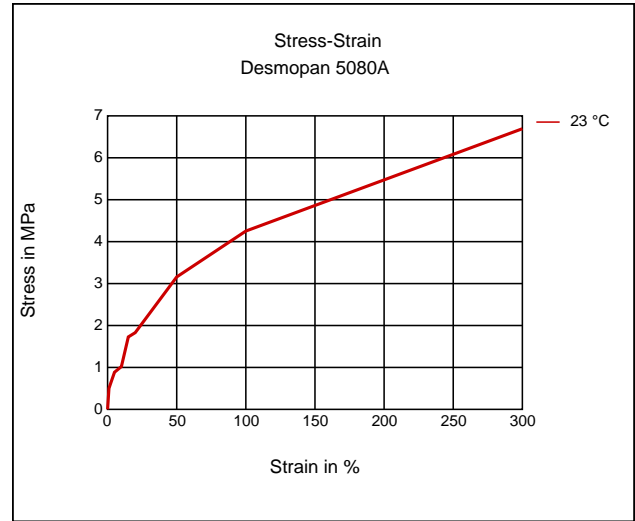
Shearstress-shear rate



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

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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