



Desmopan 9370A

TPU

Covestro Deutschland AG

- Extrusion- and injection molding grade
- with special UV stabilizers
- very good hydrolysis and microbial resistance
- good low-temperature flexibility
- free from plasticizers
- high moisture vapor transmission rate

Application:

- breathable films
- Films
- Sports shoe soles
- hard - soft systems

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	0.6	MPa	ISO 527
Stress at 100% Elongation	2.9	MPa	ISO 527
Stress at 300% Elongation	5	MPa	ISO 527
Stress at Break TPE	26	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	49	%	ISO 815
Tear strength	40	kN/m	ISO 34-1
Abrasion resistance	70	mm ³	ISO 4649
Shore Hardness A (15s)	70	-	ISO 868

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1060	kg/m ³	ISO 1183

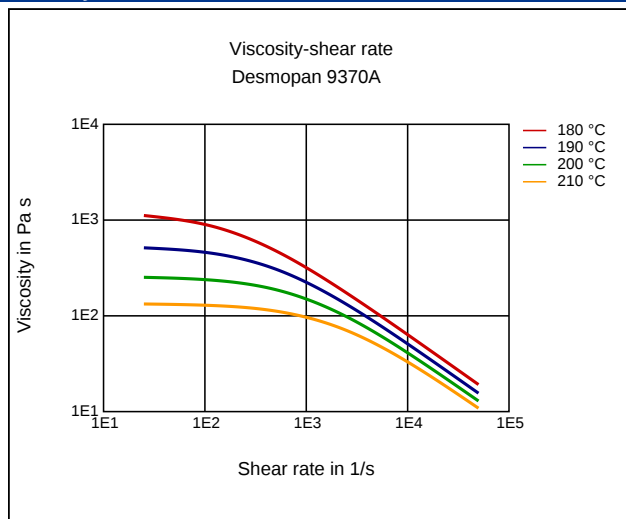
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	190 - 210	°C	-
Mold temperature	20 - 40	°C	-

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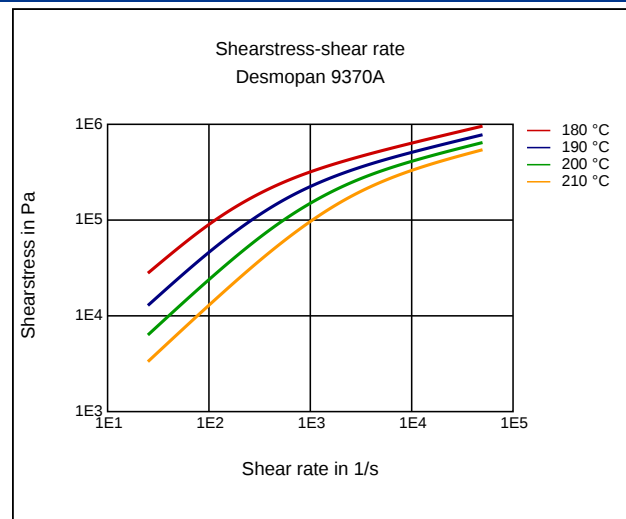
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Diagrams

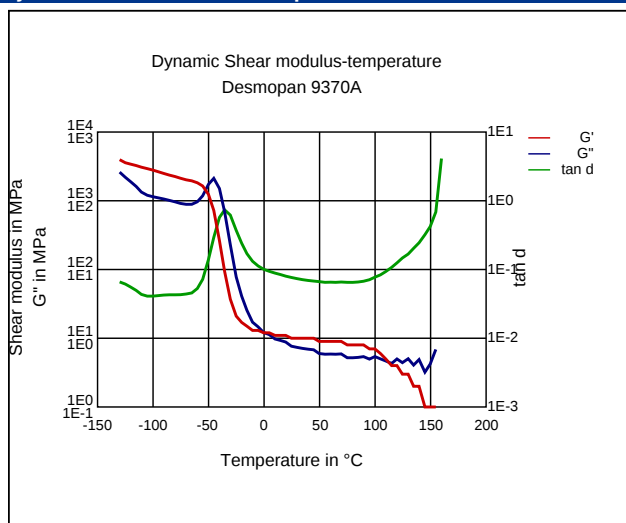
Viscosity-shear rate



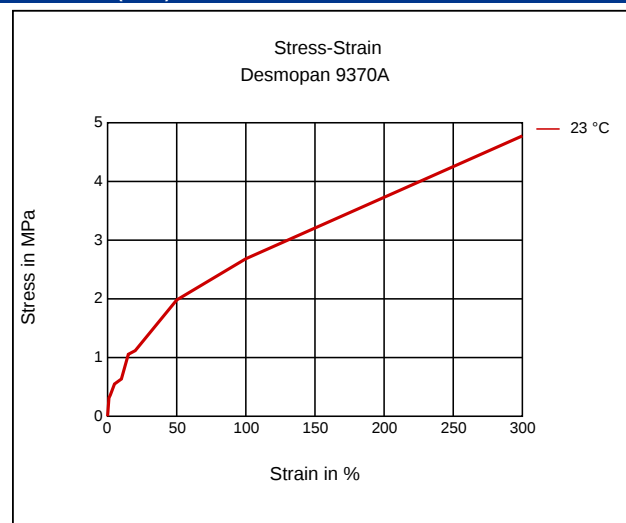
Shearstress-shear rate



Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Applications

Sports Equipment

Chemical Resistance

Hydrolysis

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: 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	175-210 °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