



Desmopan 9665DU

TPU

Covestro Deutschland AG

- Extrusion- and injection molding grade
- with special UV stabilizers
- transparent up to 6 mm wall thickness
- very good hydrolysis and microbial resistance

Application:

- Ski boot shells
- Hoses, non-reinforced
- Pneumatic hoses

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	16.5	MPa	ISO 527
Stress at 100% Elongation	29.4	MPa	ISO 527
Stress at 300% Elongation	50	MPa	ISO 527
Stress at Break TPE	57	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	50	%	ISO 815
Tear strength	170	kN/m	ISO 34-1
Abrasion resistance	25	mm ³	ISO 4649
Shore Hardness A (15s)	98	-	ISO 868
Shore Hardness D (15s)	65	-	ISO 868

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1180	kg/m ³	ISO 1183

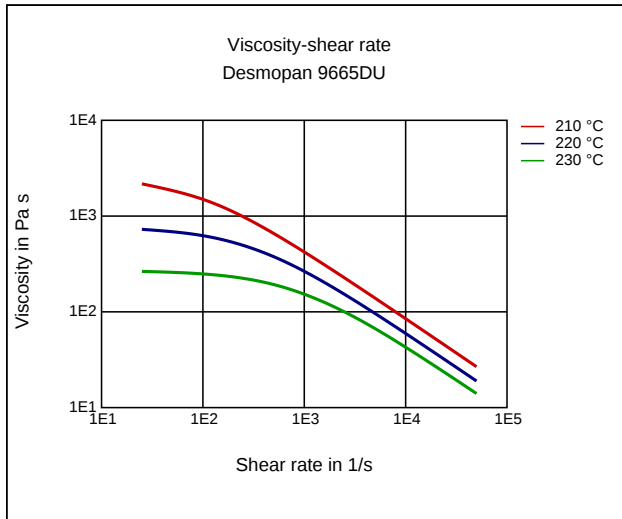
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	220 - 240	°C	-
Mold temperature	40 - 60	°C	-

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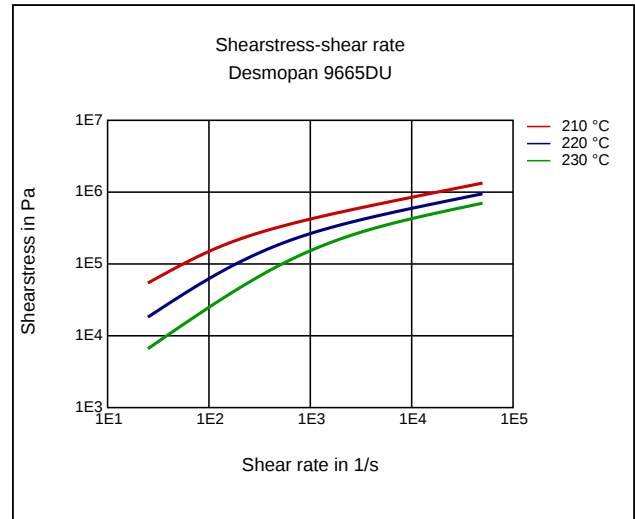
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Diagrams

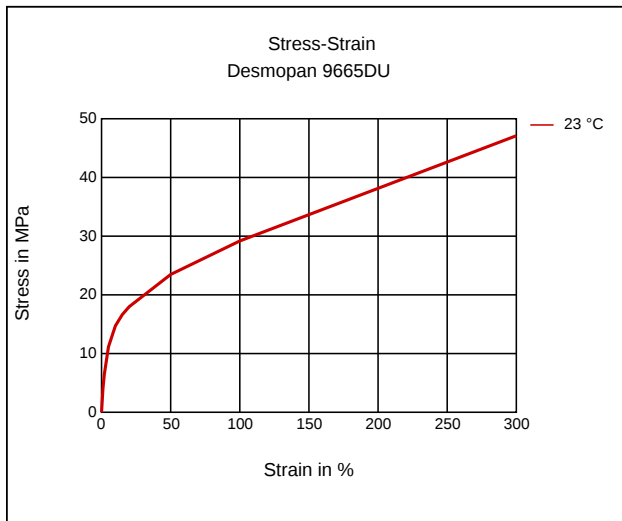
Viscosity-shear rate



Shearstress-shear rate



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

Special Characteristics

Transparent

Injection Molding

PREPROCESSING

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

PROCESSING

Melt temperature: 210-240 °C
Mold temperature: 40-60 °C

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Other Extrusion

PROCESSING

Melt temperature: 205-235 °C

Profile extrusion

Preprocessing

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