



Desmopan 790

TPU

Covestro Deutschland AG

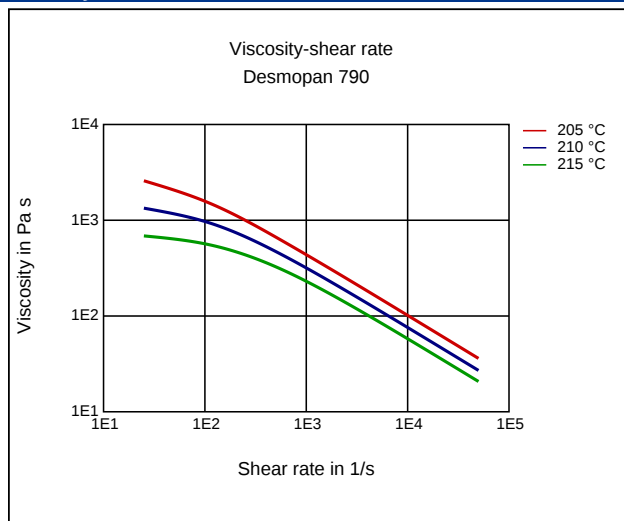
- Extrusion- and injection molding grade
- high mechanical strength
- Application:
 - Toothed belts
 - Profiles
 - Injection molded engineering parts

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	2.8	MPa	ISO 527
Stress at 100% Elongation	10.6	MPa	ISO 527
Stress at 300% Elongation	28	MPa	ISO 527
Stress at Break TPE	54	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	45	%	ISO 815
Tear strength	85	kN/m	ISO 34-1
Abrasion resistance	30	mm ³	ISO 4649
Shore Hardness A (15s)	92	-	ISO 868
Shore Hardness D (15s)	40	-	ISO 868

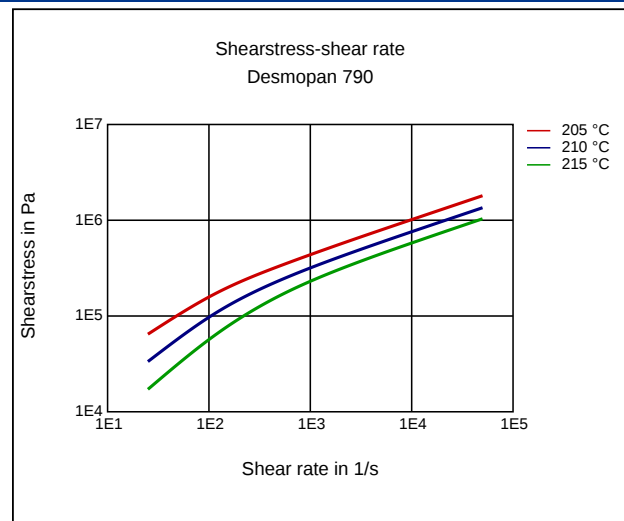
Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1210	kg/m ³	ISO 1183

Diagrams

Viscosity-shear rate



Shearstress-shear rate

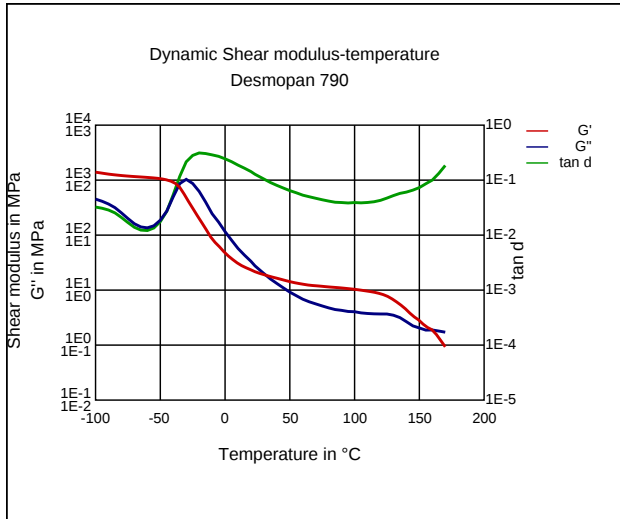


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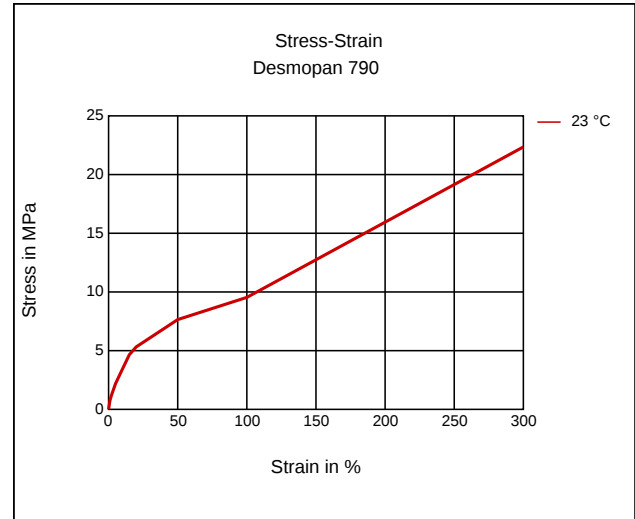
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Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding, Profile Extrusion, Other Extrusion

Additives

Lubricants

Delivery form

Pellets

Injection Molding

PREPROCESSING

Max. water content: 0.05 %
Max. drying temperature: 80 °C
Drying time:
Dry air dryer 1-2 h

PROCESSING

Melt temperature: 210-230 °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

Profile extrusion

Preprocessing

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