



Desmopan 192

TPU

Covestro Deutschland AG

- Injection molding grade
- with high mechanical strength for articles subject to wear.

Application:

- Shift lever balls
- Roller tires
- Coupling elements
- Shoe heels

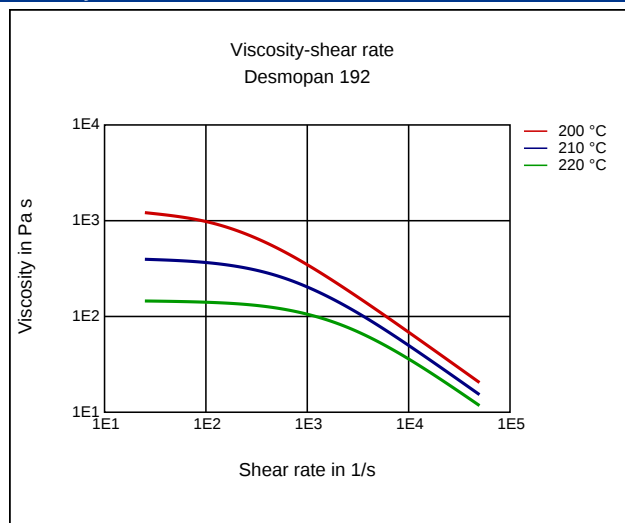
Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	4	MPa	ISO 527
Stress at 100% Elongation	9.5	MPa	ISO 527
Stress at 300% Elongation	17	MPa	ISO 527
Stress at Break TPE	52	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	40	%	ISO 815
Tear strength	85	kN/m	ISO 34-1
Abrasion resistance	32	mm ³	ISO 4649
Shore Hardness A (15s)	92	-	ISO 868
Shore Hardness D (15s)	42	-	ISO 868

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1230	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	≤90	°C	-
Melt temperature	210 - 225	°C	-
Mold temperature	20 - 40	°C	-

Diagrams

Viscosity-shear rate



Shearstress-shear rate

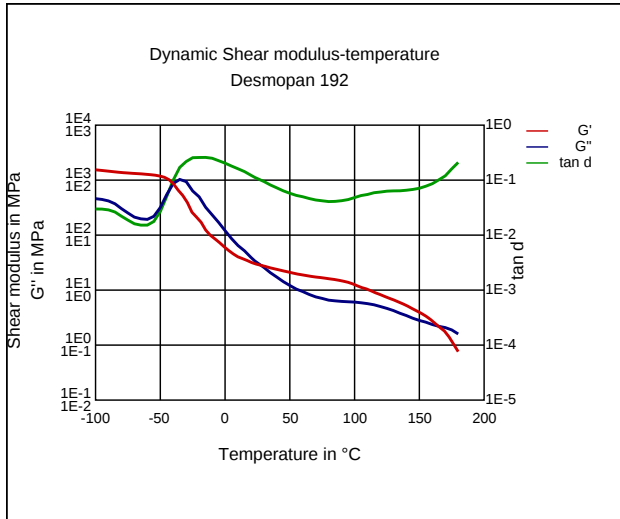


Desmopan 192

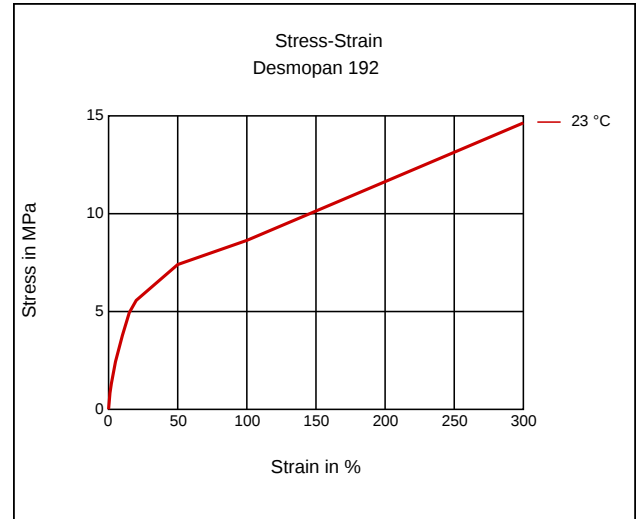
TPU

Covestro Deutschland AG

Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

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

Delivery form

Pellets, Granules

Additives

Release agent

Chemical Resistance

Hydrolysis

Injection Molding

PREPROCESSING

Max. water content: 0.05 %
Max. drying temperature: 90 °C
Drying time:
Dry air dryer 1-2 h

PROCESSING

Melt temperature: 210-225 °C
Mold temperature: 20-40 °C