



Desmopan 445

TPU

Covestro Deutschland AG

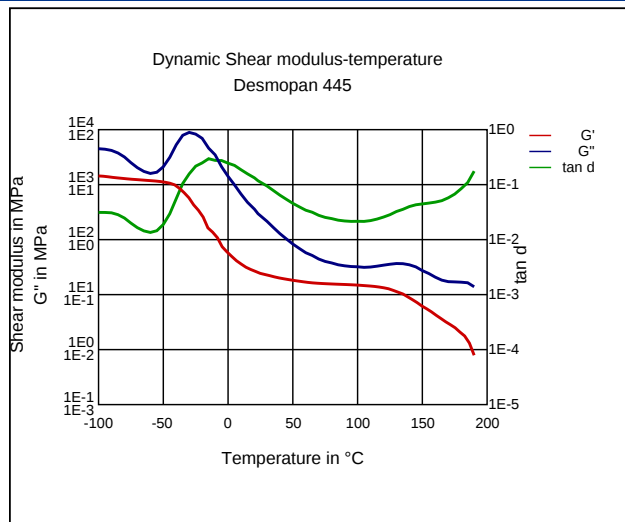
- Injection molding grade
- grease and oil-resistant
- good heat resistance
- low compression set
- Application:
 - Automotive engineering
 - Injection molded engineering parts

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	4.4	MPa	ISO 527
Stress at 100% Elongation	12.1	MPa	ISO 527
Stress at 300% Elongation	26	MPa	ISO 527
Stress at Break TPE	48	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	26	%	ISO 815
Tear strength	95	kN/m	ISO 34-1
Abrasion resistance	25	mm ³	ISO 4649
Shore Hardness A (15s)	93	-	ISO 868
Shore Hardness D (15s)	43	-	ISO 868

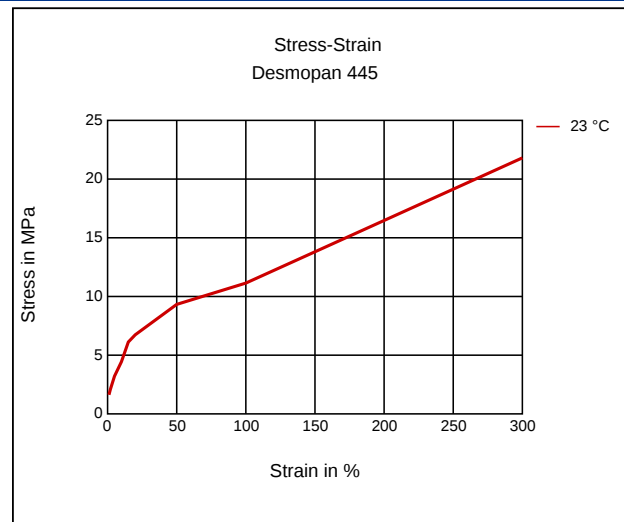
Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1220	kg/m ³	ISO 1183

Diagrams

Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding

Additives

Release agent

Delivery form

Pellets

Injection Molding

PREPROCESSING

Max. water content: 0.05 %

Max. drying temperature: 110 °C

Drying time:

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Dry air dryer 1-2 h

PROCESSING

Melt temperature: 210-240 °C

Mold temperature: 20-40 °C

Profile extrusion

Preprocessing

Max. Water content ≤0.05 %

Drying temperature 70-110 °C

Dry air dryer 1-2 h