



Desmopan 786E

TPU

Covestro Deutschland AG

- Extrusion- and injection molding grade
- high mechanical strength
- very good hydrolysis and microbial resistance
- good low-temperature flexibility

Application

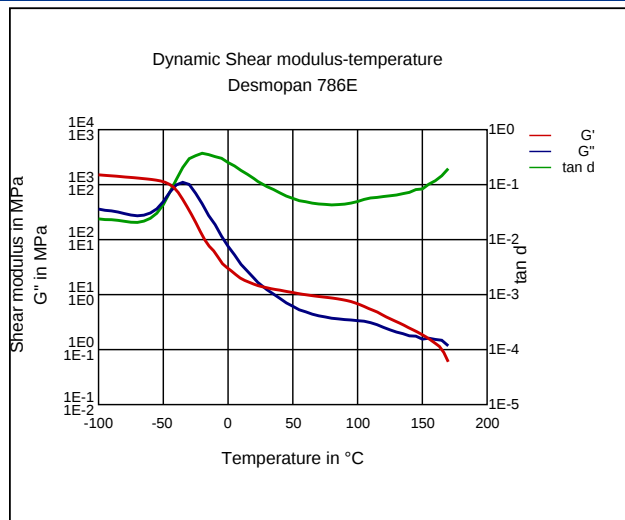
- Fire hoses
- Films
- Profiles
- Technical parts

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	2.6	MPa	ISO 527
Stress at 100% Elongation	8.2	MPa	ISO 527
Stress at 300% Elongation	16	MPa	ISO 527
Stress at Break TPE	40	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	42	%	ISO 815
Tear strength	65	kN/m	ISO 34-1
Abrasion resistance	40	mm ³	ISO 4649
Shore Hardness A (15s)	87	-	ISO 868
Shore Hardness D (15s)	33	-	ISO 868

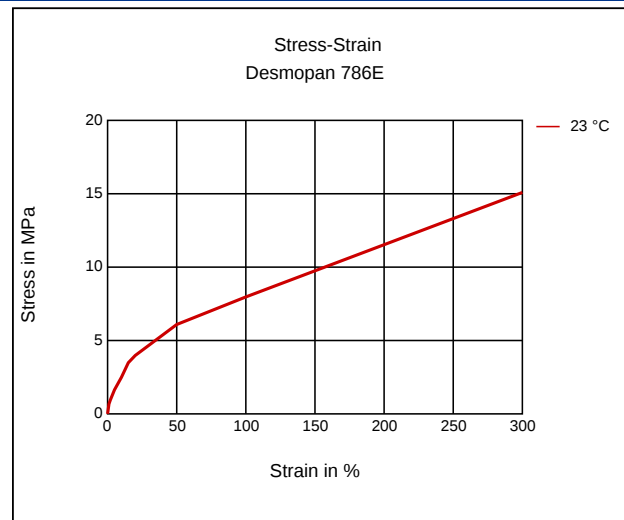
Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1150	kg/m ³	ISO 1183

Diagrams

Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

Additives

Lubricants

Delivery form

Pellets

Injection Molding

PREPROCESSING

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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
Processing
Melt temperature 200-220 °C

Profile extrusion

Preprocessing
Max. Water content ≤0.05 %
Drying temperature 70-110 °C
Dry air dryer 1-2 h
Processing
Melt temperature 200-220 °C