



Desmopan 385E

TPU

Covestro Deutschland AG

- Extrusion- and injection molding grade
- high mechanical strength
- Application:
 - Films
 - Hoses, non-reinforced
 - Screenpacks
 - Technical parts
 - hard - soft systems

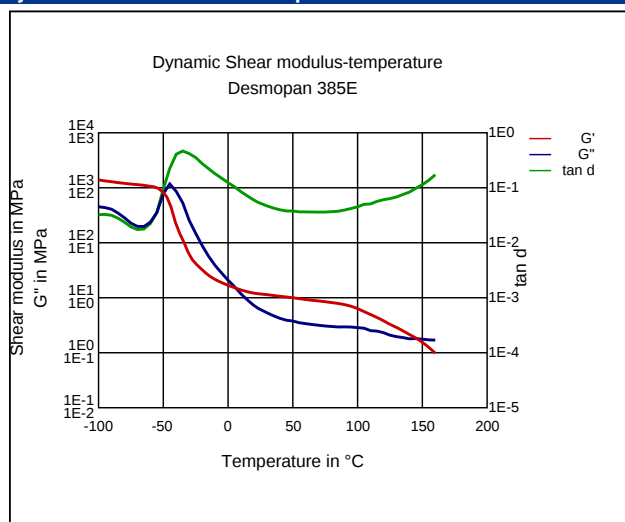
Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	1.7	MPa	ISO 527
Stress at 100% Elongation	5.3	MPa	ISO 527
Stress at 300% Elongation	13	MPa	ISO 527
Stress at Break TPE	53	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	40	%	ISO 815
Compression Set under constant strain, 100 °C	23	%	ISO 815
Tear strength	70	kN/m	ISO 34-1
Abrasion resistance	30	mm ³	ISO 4649
Shore Hardness A (15s)	86	-	ISO 868
Shore Hardness D (15s)	32	-	ISO 868

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1200	kg/m ³	ISO 1183

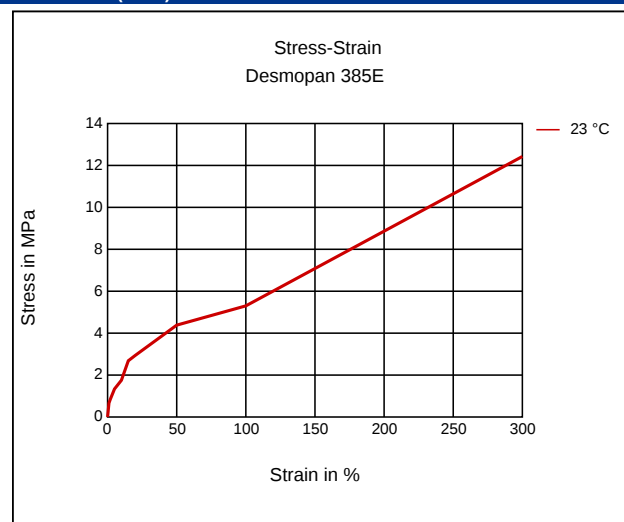
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	70 - 110	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-

Diagrams

Dynamic Shear modulus-temperature



Stress-Strain (TPE)



Characteristics

Processing

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

Additives

Release agent

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Delivery form

Pellets

Injection Molding

Preprocessing	
Max. Water content	≤0.05 %
Drying temperature	70-110 °C
Drying time	
Dry air dryer	1-2 h
Processing	
Melt temperature	210-230 °C

Other Extrusion

Preprocessing	
Max. Water content	≤0.05 %
Drying temperature	70-110 °C
Drying time	
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