



**Desmopan 3059D**

TPU

Covestro Deutschland AG

- Injection molding grade
- with release agent
- excellent abrasion resistance
- good wear resistance
- very short cycle times
- Application:
  - Heel patches
  - Rollers
  - Boot shells
  - Injection molded engineering parts

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Stress (10% Elongation)	12.4	MPa	ISO 527
Stress at 100% Elongation	21	MPa	ISO 527
Stress at 300% Elongation	42	MPa	ISO 527
Stress at Break TPE	50	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70°C	42	%	ISO 815
Compression Set under constant strain, 100°C	24	%	ISO 815
Tear strength	160	kN/m	ISO 34-1
Abrasion resistance	18	mm <sup>3</sup>	ISO 4649
Shore Hardness A (15s)	97	-	ISO 868
Shore Hardness D (15s)	59	-	ISO 868

Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density	1230	kg/m <sup>3</sup>	ISO 1183

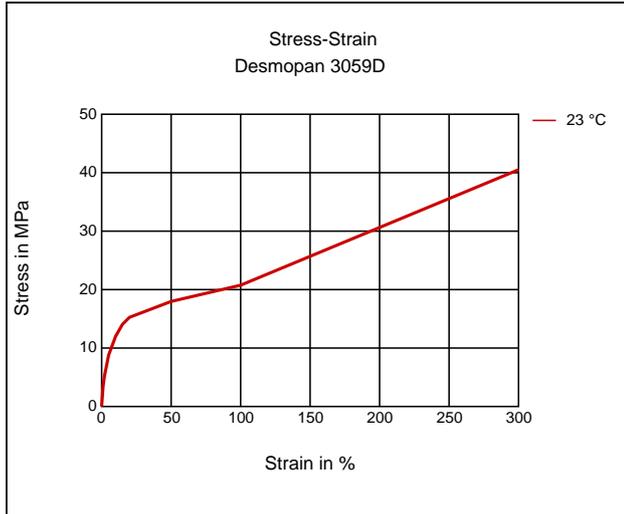
Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	220 - 240	°C	-
Mold temperature	20 - 40	°C	-

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### Diagrams

#### Stress-Strain (TPE)



### Characteristics

#### Processing

Injection Molding

#### Additives

Release agent

#### Injection Molding

##### PREPROCESSING

Max. water content: 0.05 %

Max. drying temperature: 110 °C

Drying time:

Dry air dryer 1-2 h

##### PROCESSING

Melt temperature: 220-240 °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