



Desmopan 1050D

TPU

Covestro Deutschland AG

- injection molding grade
- hydrolysis-stabilised
- high mechanical strength
- Injection molded engineering parts

Application:

- Rollers
- Ear-tags
- Shoe heels

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	9.1	MPa	ISO 527
Stress at 100% Elongation	15.2	MPa	ISO 527
Stress at 300% Elongation	27	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	46	%	ISO 815
Compression Set under constant strain, 100°C	31	%	ISO 815
Tear strength	150	kN/m	ISO 34-1
Abrasion resistance	13	mm ³	ISO 4649
Shore Hardness D (15s)	51	-	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	110	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	210 - 230	°C	-
Mold temperature	20 - 40	°C	-

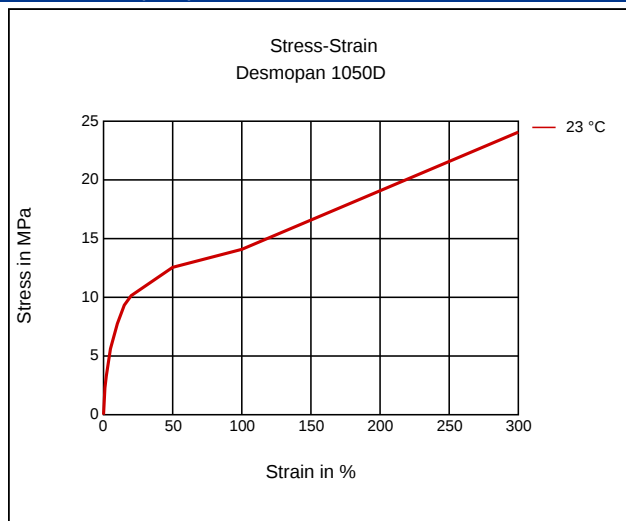
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Diagrams

Stress-Strain (TPE)



Characteristics

Processing

Injection Molding

Injection Molding

PREPROCESSING

Max. water content: 0.05 %

Max. drying temperature: 110 °C

Drying time:

Dry air dryer 1-2 h

PROCESSING

Melt temperature: 210-230 °C

Mold temperature: 20-40 °C