



Desmopan 9873DU

TPU

Covestro Deutschland AG

- Extrusion- and injection molding grade
- very good hydrolysis and microbial resistance
- very good low-temperature impact strength

Application:

- Boot shells
- Injection molded engineering parts

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	34	MPa	ISO 527
Stress at 100% Elongation	35	MPa	ISO 527
Stress at 300% Elongation	47	MPa	ISO 527
Stress at Break TPE	52	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70 °C	61	%	ISO 815
Tear strength	203	kN/m	ISO 34-1
Abrasion resistance	56	mm ³	ISO 4649
Shore Hardness D (15s)	71	-	ISO 868

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50 °C/h 50N	103	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1180	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	1 - 2	h	-
Processing humidity	≤0.05	%	-
Melt temperature	235 - 255	°C	-
Mold temperature	50 - 70	°C	-

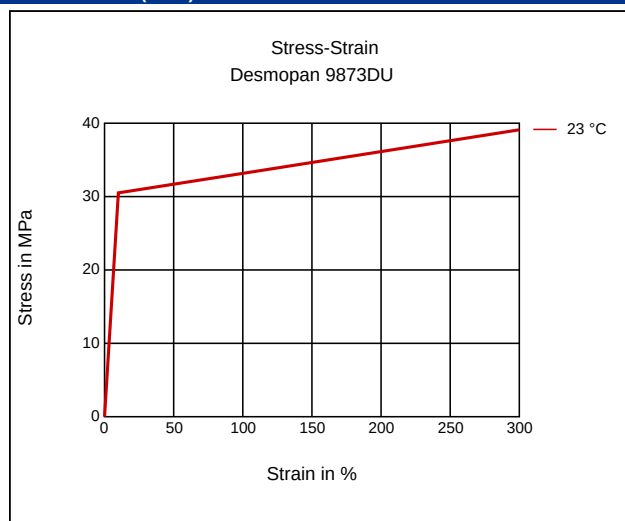
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Diagrams

Stress-Strain (TPE)



Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

Delivery form

Granules

Additives

Release agent

Special Characteristics

Impact modified, UV stabilized

Injection Molding

PREPROCESSING

Max. water content: 0.05 %

recommended drying temperature: 120 °C

Drying time:

Dry air dryer 1-2 h

PROCESSING

Melt temperature: 220 - 260 °C

Mold temperature: 50 - 70 °C

Other Extrusion

PROCESSING

Melt temperature: 215-235 °C