



Desmopan 3055DU

TPU

Covestro Deutschland AG

- Injection molding grade
- with high mechanical strength for articles subject to wear
- with special UV stabilizers
- excellent abrasion resistance
- good wear resistance
- very short cycle times

Application:

- Injection molded engineering parts
- Rollers

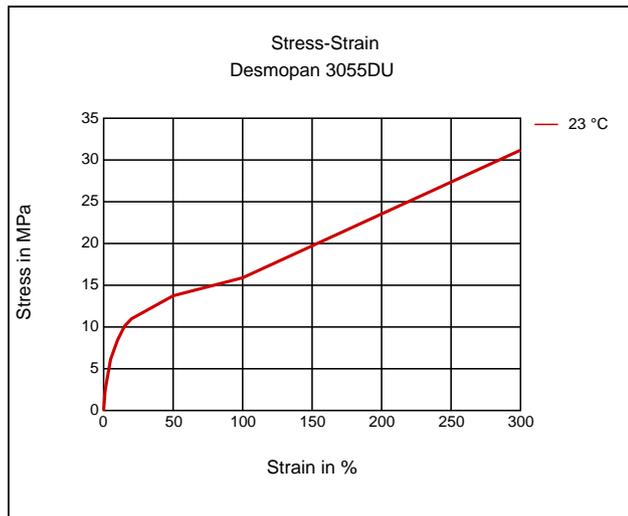
Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Flexural Modulus (23°C)	128	MPa	ISO 178
Tensile Stress (10% Elongation)	14	MPa	ISO 527
Stress at 100% Elongation	22.2	MPa	ISO 527
Stress at 300% Elongation	39	MPa	ISO 527
Stress at Break TPE	53	MPa	ISO 527
Strain at Break TPE	>300	%	ISO 527
Compression Set under constant strain, 70°C	35	%	ISO 815
Compression Set under constant strain, 100°C	26	%	ISO 815
Tear strength	135	kN/m	ISO 34-1
Abrasion resistance	26	mm ³	ISO 4649
Shore Hardness A (15s)	96	-	ISO 868
Shore Hardness D (15s)	56	-	ISO 868
Tensile Strength	53.5	MPa	ISO 37
Strain at Break	408	%	ISO 37

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1220	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	≤110	°C	-
Melt temperature	220 - 240	°C	-
Mold temperature	20 - 40	°C	-

Diagrams

Stress-Strain (TPE)



Characteristics

Processing

Injection Molding

Special Characteristics

UV stabilized

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