Desmopan 453

TPU — Covestro Deutschland AG

Product Texts

- injection molding grade
- grease and oil-resistant
- low compression set
- good wear resistance

Application:

- Injection molded engineering parts
- Automotive engineering
- Coupling elements

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Stress at 10% elongation	**7.2**	MPa	ISO 527
[C] Stress at 100% elongation	**16.6**	MPa	ISO 527
[C] Stress at 300% elongation	**28**	MPa	ISO 527
[C] Stress at break TPE	**40**	MPa	ISO 527
[C] Strain at break TPE	**>300**	%	ISO 527
Tensile Strength	**37.9**	MPa	ISO 37
Strain at break	**472**	%	ISO 37
[C] Compression set at 70 °C, 24h	**25**	%	ISO 815
[C] Tear strength	**110**	kN/m	ISO 34-1
[C] Abrasion resistance	**30**	mm³	ISO 4649
[C] Shore A hardness	**97**	-	ISO 7619-1
[C] Shore D hardness	**51**	-	ISO 7619-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1230**	kg/m³	ISO 1183

[C]: CAMPUS

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

Characteristics

Processing

Injection Molding

Applications

Automotive

Chemical Resistance

Grease Resistance, Oil Resistance

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding

PROCESSING

Melt temperature: 220-240 °C