



**Desmopan 3055D**

TPU

Covestro Deutschland AG

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

Application:

- Injection molded engineering parts
- Rollers

Mechanical Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
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	54	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 <sup>3</sup>	ISO 4649
Shore Hardness A (15s)	96	-	ISO 868
Shore Hardness D (15s)	56	-	ISO 868

Other Properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Density	1220	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	-

**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: 220-240 °C  
Mold temperature: 20-40 °C