



Desmopan 9855DU

TPU

Covestro Deutschland AG

- Injection molding grade
 - very good hydrolysis and microbial resistance
 - very good low-temperature impact strength
 - opaque
 - Cylindrical pellets
- Application:
- Boot shells
 - Technical parts

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Stress (10% Elongation)	11.3	MPa	ISO 527
Stress at 100% Elongation	20.6	MPa	ISO 527
Stress at 300% Elongation	35	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	46	%	ISO 815
Tear strength	125	kN/m	ISO 34-1
Abrasion resistance	46	mm ³	ISO 4649
Shore Hardness D (15s)	56	-	ISO 868

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50 °C/h 50N	77	°C	ISO 306

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1150	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	220 - 265	°C	-
Mold temperature	60	°C	-

Characteristics

Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

Special Characteristics

Impact modified

Injection Molding

PREPROCESSING

Max. water content: 0.05 %
Max. drying temperature: 110 °C
Drying time:
Dry air dryer 1-2 h

PROCESSING

Melt temperature: 220-265 °C
Mold temperature: 60 °C

Other Extrusion

PROCESSING

Melt temperature: 210-230 °C