

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

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE**

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