



## Desmopan 9662DU

### TPU

Covestro Deutschland AG

- Extrusion- and injection molding grade
- with special UV stabilizers
- transparent up to 6 mm wall thickness
- very good hydrolysis and microbial resistance

#### Application:

- Ski boot shells
- Hoses, non-reinforced

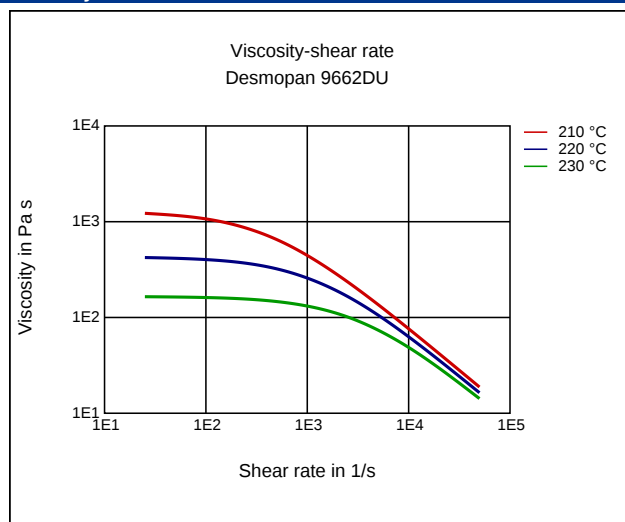
| Mechanical Properties                        | Value | Unit            | Test Standard |
|----------------------------------------------|-------|-----------------|---------------|
| <b>ISO Data</b>                              |       |                 |               |
| Tensile Stress (10% Elongation)              | 11.7  | MPa             | ISO 527       |
| Stress at 100% Elongation                    | 25.9  | MPa             | ISO 527       |
| Stress at 300% Elongation                    | 45    | MPa             | ISO 527       |
| Stress at Break TPE                          | 59    | MPa             | ISO 527       |
| Strain at Break TPE                          | >300  | %               | ISO 527       |
| Compression Set under constant strain, 70 °C | 43    | %               | ISO 815       |
| Tear strength                                | 155   | kN/m            | ISO 34-1      |
| Abrasion resistance                          | 36    | mm <sup>3</sup> | ISO 4649      |
| Shore Hardness A (15s)                       | 97    | -               | ISO 868       |
| Shore Hardness D (15s)                       | 62    | -               | ISO 868       |

| Other Properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| <b>ISO Data</b>  |       |                   |               |
| Density          | 1180  | kg/m <sup>3</sup> | ISO 1183      |

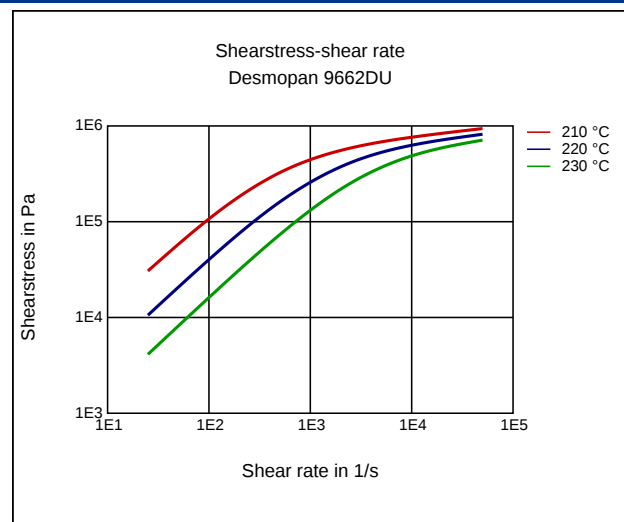
| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 110       | °C   | -             |
| Pre-drying - Time                           | 1 - 2     | h    | -             |
| Processing humidity                         | ≤0.05     | %    | -             |
| Melt temperature                            | 220 - 240 | °C   | -             |
| Mold temperature                            | 40 - 60   | °C   | -             |

## Diagrams

### Viscosity-shear rate



### Shearstress-shear rate



## Characteristics

### Processing

Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

### Special Characteristics

Transparent

## Desmopan 9662DU

### TPU

Covestro Deutschland AG

#### Injection Molding

##### PREPROCESSING

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

##### PROCESSING

Melt temperature: 210-240 °C  
Mold temperature: 40-60 °C

#### Other Extrusion

##### Preprocessing

|                              |           |
|------------------------------|-----------|
| Max. Water content           | ≤0.05 %   |
| Drying temperature           | 70-110 °C |
| Dry air dryer                | 1-2 h     |
| Processing                   |           |
| Melt temperature: 205-235 °C |           |

#### Profile extrusion

##### Preprocessing

|                    |           |
|--------------------|-----------|
| Max. Water content | ≤0.05 %   |
| Drying temperature | 70-110 °C |
| Dry air dryer      | 1-2 h     |