



## Desmopan 9370A GMP

TPU

Covestro Deutschland AG

- Extrusion- and injection molding grade
- with special UV stabilizers
- very good hydrolysis and microbial resistance
- good low-temperature flexibility
- free from plasticizers
- high moisture vapor transmission rate

Application:

- breathable films
- Films
- Sports shoe soles
- hard - soft systems

| Mechanical Properties                        | Value | Unit            | Test Standard |
|----------------------------------------------|-------|-----------------|---------------|
| <b>ISO Data</b>                              |       |                 |               |
| Tensile Stress (10% Elongation)              | 0.6   | MPa             | ISO 527       |
| Stress at 100% Elongation                    | 2.9   | MPa             | ISO 527       |
| Stress at 300% Elongation                    | 5     | MPa             | ISO 527       |
| Stress at Break TPE                          | 26    | MPa             | ISO 527       |
| Strain at Break TPE                          | >300  | %               | ISO 527       |
| Compression Set under constant strain, 70 °C | 49    | %               | ISO 815       |
| Tear strength                                | 40    | kN/m            | ISO 34-1      |
| Abrasion resistance                          | 70    | mm <sup>3</sup> | ISO 4649      |
| Shore Hardness A (15s)                       | 70    | -               | ISO 868       |
| Tensile Strength                             | 25.7  | MPa             | ISO 37        |
| Strain at Break                              | 738   | %               | ISO 37        |

| Other Properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| <b>ISO Data</b>  |       |                   |               |
| Density          | 1060  | kg/m <sup>3</sup> | ISO 1183      |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Melt temperature                            | 190 - 210 | °C   | -             |
| Mold temperature                            | 20 - 40   | °C   | -             |

| Processing Recommendation Extrusion | Value     | Unit | Test Standard |
|-------------------------------------|-----------|------|---------------|
| Melt temperature                    | 175 - 210 | °C   | -             |

### Characteristics

#### Processing

Injection Molding, Film Extrusion, Other Extrusion

#### Chemical Resistance

Hydrolysis

#### Certifications

Food approval, Food approval 1935/2004/EC, Food approval 10/2011, Food Contact (FDA), Water contact, Water contact DVGW W270

#### Applications

Sports Equipment

### Injection Molding

#### PREPROCESSING

Max. water content: 0.05 %  
Max. drying temperature: 80 °C  
Drying time:  
Dry air dryer 1-2 h

#### PROCESSING

Melt temperature: 190-210 °C  
Mold temperature: 20-40 °C

### Other Extrusion

Preprocessing

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|                    |            |
|--------------------|------------|
| Max. Water content | ≤0.05 %    |
| Drying temperature | 70-110 °C  |
| Dry air dryer      | 1-2 h      |
| Processing         |            |
| Melt temperature   | 175-210 °C |