

# Desmopan® DP 9392A

Thermoplastic Polyurethane Elastomer

Covestro - PUR

## Message:

Extrusion- and injection molding grade; very good hydrolysis and microbial resistance; good low-temperature flexibility; Application; Hoses, non-reinforced; Cable sheathings; Profiles; Technical parts

| General Information        |                             |                   |               |
|----------------------------|-----------------------------|-------------------|---------------|
| Features                   | Hydrolysis Resistant        |                   |               |
|                            | Low Temperature Flexibility |                   |               |
|                            | Microbe Resistant           |                   |               |
| Uses                       | Engineering Parts           |                   |               |
|                            | Hose                        |                   |               |
|                            | Profiles                    |                   |               |
| Processing Method          | Extrusion                   |                   |               |
|                            | Injection Molding           |                   |               |
| Physical                   | Nominal Value               | Unit              | Test Method   |
| Density (23°C)             | 1.15                        | g/cm <sup>3</sup> | ISO 1183      |
| Hardness                   | Nominal Value               | Unit              | Test Method   |
| Shore Hardness             |                             |                   | ISO 868       |
| Shore A, 23°C              | 92                          |                   |               |
| Shore D, 23°C              | 42                          |                   |               |
| Mechanical                 | Nominal Value               | Unit              | Test Method   |
| Abrasion Resistance (23°C) | 20.0                        | mm <sup>3</sup>   | ISO 4649-A    |
| Tensile Storage Modulus    |                             |                   | ISO 6721-1,-4 |
| -20°C                      | 700                         | MPa               |               |
| 20°C                       | 132                         | MPa               |               |
| 60°C                       | 71.0                        | MPa               |               |
| Torsional Storage Modulus  |                             |                   | ISO 6721-2    |
| -20°C                      | 104                         | MPa               |               |
| 23°C                       | 22.0                        | MPa               |               |
| 70°C                       | 13.0                        | MPa               |               |
| Impact Resilience (23°C)   | 32                          | %                 | ISO 4662      |
| Films                      | Nominal Value               | Unit              | Test Method   |
| Tensile Stress             |                             |                   | ISO 527-3/200 |
| Break, 23°C                | 50.0                        | MPa               |               |
| 100% Strain,23°C           | 11.0                        | MPa               |               |

|                                   |                      |             |                    |
|-----------------------------------|----------------------|-------------|--------------------|
| 300% Strain,23°C                  | 30.0                 | MPa         |                    |
| Tensile Elongation (Break, 23°C)  | 400                  | %           | ISO 527-3/200      |
| <b>Elastomers</b>                 | <b>Nominal Value</b> | <b>Unit</b> | <b>Test Method</b> |
| Tear Strength <sup>1</sup> (23°C) | 85                   | kN/m        | ISO 34-1           |
| Compression Set                   |                      |             | ISO 815            |
| 23°C, 72 hr                       | 20                   | %           |                    |
| 70°C, 24 hr                       | 40                   | %           |                    |
| <b>Injection</b>                  | <b>Nominal Value</b> | <b>Unit</b> |                    |
| Drying Temperature                | < 80.0               | °C          |                    |
| Processing (Melt) Temp            | 210 to 230           | °C          |                    |
| Mold Temperature                  | 20.0 to 40.0         | °C          |                    |
| <b>Extrusion</b>                  | <b>Nominal Value</b> | <b>Unit</b> |                    |
| Drying Temperature                | < 80.0               | °C          |                    |
| Melt Temperature                  | 195 to 215           | °C          |                    |
| <b>NOTE</b>                       |                      |             |                    |
| 1.                                | 500 mm/min           |             |                    |

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