



# Desmopan 481

400 grade series, ester / Shore hardness A 80 - 84

injection molding grade; free from plasticizers; grease and oil-resistant; low compression set; high elasticity; good heat resistance; Easy release; Application; Roller coating; Seals, membranes; Automotive engineering

## ISO Shortname

| Property                                 | Test Condition | Unit  | Standard          | Value<br>drying      annealed      -<br>according to<br>specifications |     |         |
|------------------------------------------|----------------|-------|-------------------|------------------------------------------------------------------------|-----|---------|
| Mechanical properties (23 °C/50 % r. h.) |                |       |                   |                                                                        |     |         |
| C shore hardness, method A               |                | -     | ISO 868           |                                                                        | 80  |         |
| C shore hardness, method D               |                | -     | ISO 868           |                                                                        | 30  |         |
| C Ultimate tensile strength              | 200 mm/min     | MPa   | acc. ISO 527-1,-3 |                                                                        | 30  |         |
| C Elongation at break                    | 200 mm/min     | %     | acc. ISO 527-1,-3 |                                                                        | 600 |         |
| C Stress at 100 % strain                 | 200 mm/min     | MPa   | acc. ISO 527-1,-3 |                                                                        | 5.0 |         |
| C Stress at 300 % strain                 | 200 mm/min     | MPa   | acc. ISO 527-1,-3 |                                                                        | 9.0 |         |
| C Compression set                        | 24 h; 70 °C    | %     | ISO 815           |                                                                        | 35  |         |
| C Compression set                        | 72 h; 23 °C    | %     | ISO 815           |                                                                        | 22  |         |
| C Abrasion resistance                    |                | mm³   | ISO 4649          |                                                                        | 25  |         |
| Impact resilience                        |                | %     | ISO 4662          |                                                                        | 48  |         |
| Tear propagation resistance              | 500 mm/min     | kN/m  | ISO 34-1          |                                                                        | 45  |         |
| Thermal properties                       |                |       |                   |                                                                        |     |         |
| Torsional storage modulus                | -20 °C         | MPa   | ISO 6721-2        |                                                                        | 17  |         |
| Torsional storage modulus                | 23 °C          | MPa   | ISO 6721-2        |                                                                        | 7,2 |         |
| Torsional storage modulus                | 70 °C          | MPa   | ISO 6721-2        |                                                                        | 6,7 |         |
| Tensile storage modulus                  | -20 °C         | MPa   | ISO 6721-1,-4     |                                                                        | 106 |         |
| Tensile storage modulus                  | 20 °C          | MPa   | ISO 6721-1,-4     |                                                                        | 33  |         |
| Tensile storage modulus                  | 60 °C          | MPa   | ISO 6721-1,-4     |                                                                        | 29  |         |
| Other properties (23 °C)                 |                |       |                   |                                                                        |     |         |
| C Density                                |                | kg/m³ | ISO 1183          |                                                                        |     | 1200    |
| Molding conditions                       |                |       |                   |                                                                        |     |         |
| Injection molding-Melt temperature       |                | °C    | -                 | 225 - 235                                                              |     |         |
| Injection molding-Mold temperature       |                | °C    | -                 |                                                                        |     | 20 - 40 |
| Maximum drying temperature               |                | °C    | -                 |                                                                        |     | 80      |

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

