

## TALCOPRENE® 1020CMV0 NAT - PP

### Description

Polypropylene, homopolymer, 20% mineral filled, V0, PBDE free.

### Physical properties

| ISO                 | Value | Unit              | Test Standard |
|---------------------|-------|-------------------|---------------|
| Density             | 1300  | kg/m <sup>3</sup> | ISO 1183      |
| Melt flow rate, MFR | 10    | g/10min           | ISO 1133      |
| MFR temperature     | 230   | °C                | ISO 1133      |
| MFR load            | 2.16  | kg                | ISO 1133      |

### Mechanical properties

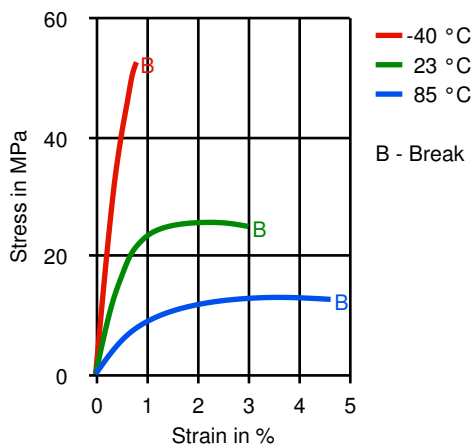
| ISO                                  | Value | Unit              | Test Standard |
|--------------------------------------|-------|-------------------|---------------|
| Tensile modulus                      | 3500  | MPa               | ISO 527-2/1A  |
| Tensile stress at break, 5mm/min     | 27    | MPa               | ISO 527-2/1A  |
| Tensile strain at break, 5mm/min     | 4     | %                 | ISO 527-2/1A  |
| Flexural modulus, 23°C               | 3900  | MPa               | ISO 178       |
| Flexural strength, 23°C              | 45    | MPa               | ISO 178       |
| Charpy impact strength, 23°C         | 20    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Charpy notched impact strength, 23°C | 2     | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Izod impact notched, 23°C            | 2.2   | kJ/m <sup>2</sup> | ISO 180/1A    |

### Thermal properties

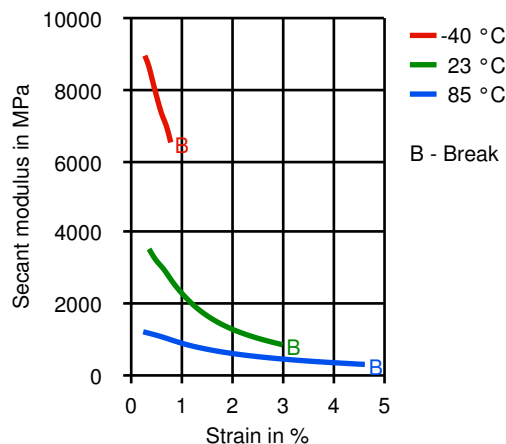
| ISO                                     | Value | Unit  | Test Standard |
|-----------------------------------------|-------|-------|---------------|
| Vicat softening temperature, 50°C/h 50N | 95    | °C    | ISO 306       |
| Flammability @1.6mm nom. thickn.        | V-0   | class | UL 94         |

### Diagrams

#### Stress-strain



#### Secant modulus-strain



### Typical injection moulding processing conditions

#### Pre Drying

|     | DryTime | DryTemp |
|-----|---------|---------|
| max | 3 h     | 100 °C  |
| min | 2 h     | 80 °C   |



---

**TALCOPRENE® 1020CMV0 NAT - PP**

---

**Temperature**

|     | CavTemp | Nozzle Temp | Z3Temp | Z2Temp | Z1Temp |
|-----|---------|-------------|--------|--------|--------|
| max | 60 °C   | 230 °C      | 230 °C | 220 °C | 210 °C |
| min | 30 °C   | 210 °C      | 210 °C | 200 °C | 190 °C |

**Other text information**

---

**Longer pre-drying times/storage**

---

This product should be stored in a covered facility and kept away from moisture and heat.

**Characteristics**

---

**Special Characteristics**

Flame retardant

**Product Categories**

Mineral reinforced

**Processing**

Injection molding

**Additives**

Flame retarding agent

