



novalca

NOVABLEND® REC N65 R70

**PC/ABS compound,
non reinforced grade,
with post-industrial raw material**

N65: medium heat grade.

R70: with at least 30% of post-industrial polymeric raw material. In compliance with ISO 14021:2016, self-declaration validated by TÜV NORD, certificate number IT-25519/2024.

Color: available in black and in a limited number of colors on demand.

For injection molding of automotive and industrial parts, housings and small appliances articles. Not suitable for aesthetic parts.

| RECOMMENDED PROCESSING PARAMETERS FOR INJECTION MOLDING | | |
|---|--|-------------------|
| DRYING CONDITIONS | BARREL TEMPERATURE | MOULD TEMPERATURE |
| 100 °C x 3 ÷ 4 hours Maximum moisture content after drying ≤ 0.02% | 240 ÷ 270 °C Standard melt temperature: 260°C | 70 ÷ 90 °C |
| PACKAGING | | |
| 25 Kg Bags, 1000 Kg Octabins, 750 Kg Boxes | | |

| PROPERTIES | METHOD | | UNIT | TYPICAL VALUES |
|---|-----------------|--------------|--------------------|----------------|
| PHYSICAL | | | | |
| Density | ASTM D792 | ISO 1183 | gr/cm ³ | 1.13 |
| Humidity Absorption (equilibrium, in air, +23°C – 50% RH) | INTERNAL METHOD | | % | 0.20 |
| Mould Shrinkage | INTERNAL METHOD | | % | 0.4 ÷ 0.7 |
| Melt Flow Index MFI (260 °C - 5 Kg) | ASTM D1238 | ISO 1133 | g/10' | 20 |
| | | | | |
| MECHANICAL | | | | |
| Tensile strength: stress at yield | ASTM D638 | ISO 527-1,-2 | MPa | 48 |
| strain at break | ASTM D638 | ISO 527-1,-2 | % | ≥ 40 |
| Flexural modulus | ASTM D790 | ISO 178 | MPa | 2500 |
| IZOD notched impact strength, at 23 °C | ASTM D256 | - | J/m | 40 |
| Specimen dimensions 62.5 mm x 12.7 mm x 3.2 mm | | | | |
| | | | | |
| THERMAL | | | | |
| VICAT softening temperature at 49 N-120 °C/h | ASTM D1525/B | ISO 306/B | °C | 124 |
| | | | | |
| ELECTRICAL | | | | |
| Surface resistivity | ASTM D257 | IEC 60093 | Ohm | 1E16 |
| Comparative tracking index (solution A, CTI) | VDE 0303-P1 | IEC 60112 | V | 250 |
| | | | | |
| FLAMMABILITY | | | | |
| Flammability UL94 (thickness 3.2 mm) | UL 94 | | Class | HB |
| Flammability UL94 (thickness 1.6 mm) | UL 94 | | Class | HB |
| Burning rate FMVSS302 (thickness 2.2/ 3.2 mm) | ISO 3795 | | mm/min | Passed |

Our technical data are provided for guidance purpose only and are based on average values. The data are not meant to be used for specification or warranted purposes. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the data have been established on standardized test specimens at room temperature. All technical information is subject to continuous update, so the customer shall always ensure that the latest release of technical information is at his own disposal. It is the customer's responsibility to inspect and test our products in order to determine to his own satisfaction whether they are suitable for his intended uses and applications or used in conjunction with third-party materials. Unless specifically stated with reference to the specific color code, the products mentioned herein are not suitable for applications in the pharmaceutical, medical, dental and toys sectors, in contact with foodstuff or for potable water transportation.

Updating: January 2025
Printing date: 22 April 2025