



CELANYL[®] A2 GF15 BK 9005/1 CELANYL®

Product information

| Resin Identification Part Marking Code | PA66-GF15 >PA66-GF15< | | ISO 1043 ISO 11469 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------|
| Typical mechanical properties | dry/cond. | | |
| Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Charpy notched impact strength, 23°C Izod notched impact strength, 23°C Poisson's ratio [C]: Calculated | 6400/- 115/- 2.5/- 3.5/- 6.4/- 0.35/- ^[C] | MPa MPa % kJ/m ² kJ/m ² | ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eA ISO 180/1A |
| Thermal properties | dry/cond. | | |
| Temperature of deflection under load, 1.8 MPa Temperature of deflection under load, 0.45 MPa | 243/* 260/* | °C °C | ISO 75-1/-2 ISO 75-1/-2 |
| Physical/Other properties | dry/cond. | | |
| Density | 1250/- | kg/m³ | ISO 1183 |
| Injection | | | |
| Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature | 2 - 4 ≤0.15 295 285 305 ≤0.2 100 | % °C °C °C m/s °C °C | |
| Characteristics | | | |

Processing

Injection Moulding

Printed: 2025-05-29

Page: 1 of 1

Revised: 2024-07-12 Source: Celanese Materials Database

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication as a promise or guarantee of specific properties of our groucts. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the

© 2025 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC.