

CELANYL[®] A3 H J10 GF13 NC 1102/E CELANYL®

Car industry, Household appliances, Electrical devices.

Product information			
Resin Identification	PA66-I-GF13		ISO 1043
Part Marking Code	>PA66-I-GF13<		ISO 11469
Rheological properties	dry/cond.		
Moulding shrinkage, parallel	0.6/-	%	ISO 294-4, 2577
Moulding shrinkage range, parallel	0.4 - 0.7	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.8/-	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.7 - 1	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	4900/3720	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	95/72	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	5/8.8	%	ISO 527-1/-2
Flexural modulus	4100/-	MPa	ISO 178
Flexural strength	96/-	MPa	ISO 178
Charpy impact strength, 23°C	60/12	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	7.5/-	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	9.5/-	kJ/m²	ISO 180/1A
Izod impact strength, 23°C	>50/-	kJ/m²	ISO 180/1U
Poisson's ratio	0.35/0.36 ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	265/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	238/*	°C	ISO 75-1/-2
Flammability	dry/cond.		
Burning Behav. at thickness h	HB/*	class	IEC 60695-11-10
Thickness tested	0.8/*	mm	IEC 60695-11-10
Glow Wire Flammability Index, 0.75mm	650/-	°C	IEC 60695-2-12
Glow Wire Flammability Index, 3.0mm	650/-	°C	IEC 60695-2-12
Electrical properties	dry/cond.		
Comparative tracking index	500/-		IEC 60112
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1/*	%	Sim. to ISO 62
Water absorption, 2mm	6/*	%	Sim. to ISO 62
Density	1200/-	kg/m ³	ISO 1183
•		-	





CELANYL[®] A3 H J10 GF13 NC 1102/E CELANYL®

Injection

Drying Recommended	yes
Drying Temperature	80 °C
Drying Time, Dehumidified Dryer	2-4 h
Processing Moisture Content	≤0.15 %
Melt Temperature Optimum	295 °C
Min. melt temperature	285 °C
Max. melt temperature	305 °C
Screw tangential speed	≤0.2 m/s
Mold Temperature Optimum	80 °C
Min. mould temperature	50 °C
Max. mould temperature	100 °C

Characteristics

Processing	Injection Moulding
Delivery form	Granules
Special characteristics	High impact or impact modified, Heat stabilised or stable to heat

Printed: 2025-05-29

Page: 2 of 2

Revised: 2024-08-16 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, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are 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. Contained in this publication is accurate; however, we do not assume any liability of the dusers 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 industion for handling each material th

© 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.