

CELANYL[®] A2 J05 M30 BK 9005/R/UV CELANYL®

Car industry, Household appliances, Electrical devices.

Product information			
Resin Identification	PA66-I-MD30		ISO 1043
Part Marking Code	>PA66-I-MD30<		ISO 11469
Continuous Service Temperature	100	°C	IEC 60216-1
Rheological properties	dry/cond.		
Moulding shrinkage, parallel	1.0/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.1/-	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	6200/-	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	75/-	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.4/-	%	ISO 527-1/-2
Flexural modulus Flexural strength	5800/- 120/-	MPa MPa	ISO 178 ISO 178
Charpy impact strength, 23°C	33/-	kJ/m ²	ISO 178 ISO 179/1eU
Izod notched impact strength, 23°C	3.2/-	kJ/m ²	ISO 180/1A
Poisson's ratio	0.35/- ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Temperature of deflection under load, 1.8 MPa	95/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	225/*	°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
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1.8/*	%	Sim. to ISO 62
Water absorption, 2mm	6.2/*	%	Sim. to ISO 62
Density	1340/-	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature	80	°C	
Drying Time, Dehumidified Dryer	2-4 h		
Processing Moisture Content Melt Temperature Optimum	≤0.15 % 295 °C		
Min. melt temperature	295		
Max. melt temperature	305		
Screw tangential speed	≤0.2	m/s	
Mold Temperature Optimum	100		
Min. mould temperature	70	°C	

Printed: 2025-05-29





CELANYL[®] A2 J05 M30 BK 9005/R/UV CELANYL®

Max. mould temperature

120 °C

Characteristics

Processing	Injection Moulding
Additives	Mineral Filler
Special characteristics	High impact or impact modified, U.V. stabilised or stable to weather, Heat stabilised or stable to heat, High Flow, Low Warpage

Printed: 2025-05-29

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 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.

Page: 2 of 2