



## CELCON® ET-20R7G BK

## **CELCON®**

- A CNT (Carbon Nano Tube) filled anti-static grade for general extrusion molding (rods, plates, sheets, etc.)
- Suitable for electric and automotive parts requiring anti-static property
- Cautions: Surface resistivity will change with extrusion conditions: die design, pressure, seeed, etc.

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Produ	ct int	orma	tion

Resin Identification Part Marking Code	POM-CD >POM-CD<		ISO 1043 ISO 11469
Rheological properties			
Melt mass-flow rate Melt mass-flow rate, Temperature Melt mass-flow rate, Load	4 190 2.16		ISO 1133
Typical mechanical properties			
Tensile stress at yield, 50mm/min Tensile strain at yield, 50mm/min Nominal strain at break Flexural modulus Flexural strength Charpy notched impact strength, 23°C	10 20 2000 68	%	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 178 ISO 179/1eA
Thermal properties			
Melting temperature, 10°C/min Coefficient of linear thermal expansion (CLTE), parallel Flammability	165 90	°C E-6/K	ISO 11357-1/-3 ISO 11359-1/-2
Burning Behav. at thickness h Thickness tested		class mm	IEC 60695-11-10 IEC 60695-11-10
Electrical properties			
Surface resistivity	1E7	Ohm	IEC 62631-3-2
Physical/Other properties			
Density	1390	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		h % °C °C °C	

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Revised: 2025-01-23 Source: Celanese Materials Database





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Max. mould temperature 80 °C Hold pressure range 60 - 120 MPa

## Characteristics

Processing Injection Moulding, Extrusion

Delivery form Pellets

Special characteristics Reduced gloss

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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. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. 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 e

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