Celanese
The chemistry inside innovation™

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.

Product information

Resin Identification	POM-CD		ISO 1043
Part Marking Code	>POM-CD<		ISO 11469

Rheological properties

Melt mass-flow rate	4	g/10min	ISO 1133
Melt mass-flow rate, Temperature	190	°C	
Melt mass-flow rate, Load	2.16	kg	

Typical mechanical properties

Tensile stress at yield, 50mm/min	50	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Nominal strain at break	20	%	ISO 527-1/-2
Flexural modulus	2000	MPa	ISO 178
Flexural strength	68	MPa	ISO 178
Charpy notched impact strength, 23°C	6	kJ/m²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Coefficient of linear thermal expansion (CLTE), parallel	90	E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.8	mm	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	no	
Drying Temperature	100	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	195	°C
Min. melt temperature	180	°C
Max. melt temperature	210	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	70	°C
Min. mould temperature	60	°C

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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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