CELCON® ET-20S

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A medium viscosity grade for general injection molding. It was modified with electrically conductive carbon black, and so suitable for parts requiring electric conductivity.

Product information

Resin Identification	POM-CD8	ISO 1043
Part Marking Code	>POM-CD8<	ISO 11469

Rheological properties

Melt mass-flow rate	11.5	g/10min	ISO 1133
Molding shrinkage range, parallel	1.6	%	ISO 294-4, 2577

Typical mechanical properties

Tensile stress at yield, 50mm/min	5800	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	4	%	ISO 527-1/-2
Nominal strain at break	12	%	ISO 527-1/-2
Flexural modulus	384000	psi	ISO 178
Flexural strength	9720	psi	ISO 178
Charpy notched impact strength, 23°C	1.9	ftlb/in^2	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	190	°F	ISO 75-1/-2

Flammability

Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.0315	in	IEC 60695-11-10

Electrical properties

Surface resistivity	1000	Ohm	IEC 62631-3-2

Physical/Other properties

Density	0.0498	lb/in^3	ISO 1183

Characteristics

Processing	Injection Molding
Special characteristics	Increased electrical conductivity

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