

HOSTAFORM® C 27021 AS - POM

Description

POM copolymer Antistatistical modified; very easy flowing Injection molding type; the antistatistical effect improves, when the molded part absorbs enough humidity; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation. Hostaform C 27021 AS is suggested for dissipation of minor buildup of static electricity that might occur with standard type grades. However, it is not intended for use in fuel system components where static dissipation is critical to part performance. Please refer to Celanese's ESD (electrostatic dissipative) grades for those applications Preliminary Datasheet

Physical properties	Value	Unit	Test Standard
Density	1410	kg/m ³	ISO 1183
Melt volume rate, MVR	25	cm ³ /10min	ISO 1133
MVR temperature	190	°C	ISO 1133
MVR load	2,16	kg	ISO 1133
Molding shrinkage, parallel	1,9	%	ISO 294-4, 2577
Molding shrinkage, normal	1,8	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	2650	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	62	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	8	%	ISO 527-2/1A
Tensile nominal strain at break, 50mm/min	20	%	ISO 527-2/1A
Charpy notched impact strength, 23°C	5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4,5	kJ/m ²	ISO 179/1eA
Ball indentation hardness, 30s	147	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Coeff. of linear therm expansion, parallel	1,1	E-4/°C	ISO 11359-2

Electrical properties	Value	Unit	Test Standard
Surface resistivity	1E12	Ohm	IEC 60093

Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-

Other text information

Injection molding

Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

Melt temperature 190-210 °C

Mould temperature 80-120 °C

Characteristics

Special Characteristics	Delivery Form
Anti-static	Pellets

Product Categories	Additives
Specialty	Release agent

Processing

Injection molding

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General Disclaimer

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