Fortron® MT9320C0

Polyphenylene Sulfide

Celanese Corporation

Message:

Fortron MT9320C0 is an unfilled grade used for extrusion applications. It demonstrates excellent chemical resistance and thermal stability as well as a high melt strength. Components made of this grade may be used for medical, dental, pharmaceutical, and certain food handling applications. Fortron MT9320C0 is in compliance with ISO 10993, USP Class VI and it is included in the Fortron Drug and Device Master Files at the FDA. This grade complies with the FDA Food Contact Notification (FCN-No. 40) for repeat-use applications.

General Information			
Features	Good melt strength Good chemical resistance Thermal stability, good		
Uses	Non-specific food applications Drug Medical/nursing supplies		
Agency Ratings	FDA FCN 40 ISO 10993 USP Class VI		
RoHS Compliance	Contact manufacturer		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.35	g/cm³	ISO 1183
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	85.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	6.0	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	4200	MPa	ISO 178
Flexural Stress (23°C)	140	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	3.5	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, not annealed	115	°C	ISO 75-2/A
8.0 MPa, not annealed	95.0	°C	ISO 75-2/C
Glass Transition Temperature [1]	90.0	°C	ISO 11357-2
Melting Temperature [2]	280	°C	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Relative Permittivity (1 MHz)	2.80		IEC 60250

Injection	Nominal Value	Unit
Drying Temperature	110 - 120	°C
Drying Time	3.0 - 4.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	20.0 - 30.0	°C
Rear Temperature	290 - 300	°C
Middle Temperature	300 - 310	°C
Front Temperature	310 - 320	°C
Nozzle Temperature	300 - 310	°C
Processing (Melt) Temp	310 - 320	°C
Mold Temperature	140 - 160	°C
Injection Pressure	40.0 - 80.0	MPa
Injection Rate	Fast	
Holding Pressure	30.0 - 60.0	MPa
Back Pressure	0.00 - 3.00	MPa

Injection instructions
Manifold Temperature: 310 to 320°CZone 4 Temperature: 310 to 320°CFeed Temperature: 60 to 80°C

NOTE	
1.	10°C/min
2.	10°C/min

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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