Fortron® MT9140L4

Polyphenylene Sulfide

Celanese Corporation

Message:

Fortron MT 9140L4 is a 40% glass fiber reinforced injection molding grade that exhibits excellent heat and chemical resistance, inherent flame retardancy, and high hardness and rigidity at elevated temperatures.
Components made of this grade may be used for medical and food handling applications. Fortron MT 9140L4 is in compliance with ISO 10993, USP Class VI, and is included in the Fortron Drug and Device Master Files at the FDA. The grade complies with the FDA Food Contact Notification (FCN-No. 40) for repeat-use applications.

General Information			
UL YellowCard	E107854-237739		
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Good chemical resistance High hardness Flame retardancy		
Uses	Non-specific food applications Medical/nursing supplies		
Agency Ratings	FDA FCN 40 ISO 10993 USP Class VI		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.65	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.40 - 0.60	%	ISO 294-4
Flow direction	0.20 - 0.60	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.020	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Break)	190	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Flexural Modulus (23°C)	14000	MPa	ISO 178
Flexural Stress (23°C)	280	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	9.0	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	48	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength (23°C)	32	kJ/m²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
1.8 MPa, not annealed	270	°C	ISO 75-2/A
8.0 MPa, not annealed	200	°C	ISO 75-2/C
Glass Transition Temperature [1]	90.0	°C	ISO 11357-2
Melting Temperature [2]	280	°C	ISO 11357-3
Injection	**Nominal Value**	**Unit**	
Drying Temperature	130 - 140	°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	310 - 320	°C	
Front Temperature	330 - 340	°C	
Nozzle Temperature	310 - 330	°C	
Processing (Melt) Temp	330 - 340	°C	
Mold Temperature	140 - 160	°C	
Injection Pressure	50.0 - 100	MPa	
Injection Rate	Fast		
Holding Pressure	30.0 - 70.0	MPa	
Back Pressure	0.00 - 3.00	MPa	
Injection instructions			
Manifold Temperature: 330 to 340°CZone 4 Temperature: 330 to 340°CFeed Temperature: 60 to 80°C			
NOTE			
1.	10°C/min		
2.	10°C/min		

Recommended distributors for this material

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