



Fortron® MT9141L4 DW

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

Fortron MT9141L4 DW is a 40% glass-reinforced PPS that has excellent heat and chemical resistance, inherently flame-retardant, high hardness and a good balance of strength and stiffness. This grade exhibits low flash and is typically used in applications with thicker walls and shorter flow lengths.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Latin America	
	• Europe	• North America	
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Chemical Resistant	• Good Stiffness	
	• Flame Retardant	• Good Strength	• High Hardness
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.40 to 0.60	%	
Flow	0.20 to 0.60	%	
Water Absorption (Saturation, 73°F)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.25E+6	psi	ISO 527-2/1A/1
Tensile Stress (Break)	28300	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.9	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	2.15E+6	psi	ISO 178
Flexural Stress ²	42100	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.7	ft·lb/in ²	
73°F	5.7	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	25	ft·lb/in ²	
73°F	25	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	518	°F	ISO 75-2/A
Glass Transition Temperature ³	194	°F	ISO 11357-2
Melting Temperature ³	536	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.015 in	V-0		
0.06 in	V-0		

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	266 to 284	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Hopper Temperature	68 to 86	°F
Rear Temperature	554 to 572	°F
Middle Temperature	590 to 608	°F
Front Temperature	626 to 644	°F
Nozzle Temperature	590 to 626	°F
Processing (Melt) Temp	626 to 644	°F
Mold Temperature	284 to 320	°F
Injection Pressure	7250 to 14500	psi
Injection Rate	Fast	
Holding Pressure	4350 to 10200	psi
Back Pressure	0.00 to 435	psi

Injection Notes

Manifold Temperature: 330 to 340°C

Zone 4 Temperature: 330 to 340°C

Feed Temperature: 60 to 80°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² Break

³ 10°C/min