



Fortron® 1140L7

Celanese Corporation - Polyphenylene Sulfide

Tuesday, November 5, 2019

General Information

Product Description

One of the easiest flowing 40% glass reinforced grade in the Fortron product line. This material can be processed at fast cycle times due to the unique crystallization characteristics. This product offers good heat and chemical resistance, as well as, good electrical properties. The product is inherently flame-retardant and exhibits high hardness and rigidity.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Features	• Chemical Resistant • Fast Molding Cycle • Flame Retardant	• Good Electrical Properties • Good Flow • Good Heat Resistance	• High Hardness • High Stiffness
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	0.50 to 0.70	%	
Flow	0.10 to 0.30	%	
Water Absorption (Saturation, 73°F)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.10E+6	psi	ISO 527-2/1A
Tensile Stress (Break)	24700	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.6	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	2.10E+6	psi	ISO 178
Flexural Stress	37700	psi	ISO 178
Compressive Modulus	2.03E+6	psi	ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/1A
-22°F	3.8	ft-lb/in ²	
73°F	3.8	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	518	°F	ISO 75-2/A
Heat Deflection Temperature (1160 psi, Unannealed)	392	°F	ISO 75-2/C
Glass Transition Temperature ²	194	°F	ISO 11357-2
Melting Temperature ²	536	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms-cm	IEC 60093
Electric Strength	660	V/mil	IEC 60243-1
Comparative Tracking Index	125	V	IEC 60112

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Fortron® 1140L7

Celanese Corporation - Polyphenylene Sulfide

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.015 in		V-0	
0.06 in		V-0	

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 Rate	Fast	
Back Pressure	< 435	psi

Injection Notes

Feeding zone temperature: 60 to 80°C
 Zone4 temperature: 330 to 340°C
 Hot runner temperature: 330 to 340°C

Notes

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

² 10°C/min