

FORTRON® 1115L0 - PPS

Description

Fiberglass reinforced with high melt strength for blow molding & extrusion applications

Fortron® 1115L0 is a 15% fiberglass-reinforced grade of polyphenylene sulfide with high melt strength suitable for blow molding and extrusion applications. The recommended processing conditions are similar to those of our standard grades, except drying conditions are somewhat milder at 80 to 100 C for 3-4 hours.

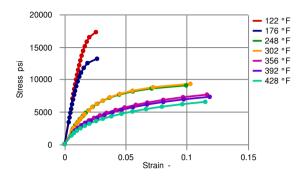
89.9 0.02 Value 1.12E6 17400	lb/ft³ % Unit psi	ISO 1183 Sim. to ISO 62
Value 1.12E6 17400	Unit	Test Standard
1.12E6 17400		
17400	psi	100 507 1 0
		ISO 527-1, -2
	psi	ISO 527-1, -2
2	%	ISO 527-1, -2
1.09E6	psi	ISO 178
29000	psi	ISO 178
15.2	ft-lb/in ²	ISO 179/1eU
2.38	ft-lb/in ²	ISO 179/1eA
2.47	ft-lb/in ²	ISO 180/1A
32900	psi	ISO 2039-1
Value	Unit	Test Standard
428	°F	ISO 75-1, -2
239	°F	ISO 75-1, -2
V-0	class	UL 94
0.0295	in	UL 94
Value	Unit	Test Standard
>1E15	Ohm	IEC 62631-3-2
-	29000 15.2 2.38 2.47 32900 Value 428 239 V-0 0.0295 Value	29000 psi 15.2 ft-lb/in² 2.38 ft-lb/in² 2.47 ft-lb/in² 32900 psi Value Unit 428 °F 239 °F V-0 class 0.0295 in Value Unit





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True Stress-strain



Typical injection moulding processing conditions

Pre Drying	Value	Unit	
Necessary low maximum residual moisture content	0.02	%	
Drying time	3 - 4	h	
Drying temperature	212 - 284	°F	
Temperature	Value	Unit	
Hopper temperature	68 - 86	°F	
Feeding zone temperature	140 - 176	°F	
Zone1 temperature	554 - 572	°F	
Zone2 temperature	590 - 608	°F	
Zone3 temperature	626 - 644	°F	
Zone4 temperature	626 - 644	°F	
Nozzle temperature	590 - 626	°F	
Melt temperature	626 - 644	°F	
Mold temperature	284 - 320	°F	
Hot runner temperature	626 - 644	°F	
Pressure	Value	Unit	
Back pressure max.	30	bar	
Speed	Value		
Injection speed	fast		
Screw Speed	Value	Unit	
Screw speed diameter, 25mm	120	RPM	
Screw speed diameter, 40mm	75	RPM	
Screw speed diameter, 55mm	50	RPM	

Pre-drying

FORTRON should in principle be predried. Because of the necessary low maximum residual moisture content the use of dry air dryers is recommended. The dew point should be =< - 30 ° C. The time between drying and processing should be as short as possible.





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Longer pre-drying times/storage

For subsequent storage the material should be stored dry in the dryer until processed (<= 60 h).

Characteristics

Special Characteristics Flame retardant

Product Categories Specialty

Processing Blow molding, Extrusion

General Disclaimer

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products. The products mentioned herein are not intended for use in medical or dental implants.

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