Product Information：

F3150

Paryls® Polysulfone(PSU)

Descriptions

F3150 is an unfilled, high viscosity PSU pellets,which is suitable for molding processes such as injection molding and extrusion.

- Natural: PSU F3150NC
- Grey: PSU F3150GY
- Black: PSU F3150BK
- White: PSU F3150WH

Features

- Good Dimensional Stability
- Chemical Resistant
- Steam Resistant
- Creep Resistant
- Ethylene Oxide Sterilizable
- High Heat Resistance
- Good Mechanical Properties
- Flame Retardant
- Good Electrical Properties

Applications

- Plumbing Parts
- Commercial Instruments
- Microwave Cookware
- Automotive Applications
- Surgical Instruments
- Food Service Applications

Properties[1]	Test Method	Test Conditions	Unit	Values[1,2]
Mechanical				
Tensile Strength	ASTM D638	50mm/min	MPa	68
Tensile Modulus	ASTM D638	1mm/min	MPa	2480
Tensile Elongation(Yield)	ASTM D638	50mm/min	%	5.9
Flexural Strength	ASTM D790	2mm/min	MPa	105
Flexural Modulus	ASTM D790	2mm/min	MPa	2600
Impact Strength, Notched	ASTM D256	/	J/m	70
Thermal				
Heat Distortion Temp.	ASTM D648	1.8MPa, 3.18 mm	℃	175
Glass Transition Temp.	ASTM E1356	10℃/min	℃	185
Flammability				
Flame Rating	UL94	1.5mm	Class	HB
Flame Rating	UL94	4.5mm	Class	V-0
Electrical				
Volume Resistivity	ASTM D257	100V	Ω · m	＞1E+13
Dielectric Constant	ASTM D150	60HZ 1MHZ	- -	3.1 3.1
Dielectric Strength	IEC 60243-1	60*60*1 mm^3	KV/mm	17
Others				
Density	ASTM D792	/	g/cm^3	1.24
Moisture Absorption	ASTM D570	23℃,50%RH	%	0.3
Melt Flow Rate	ASTM D1238	343℃,2.16kg	g/10min	6.0-10.0
Mold shrinkage	ASTM D955	/	-	0.7

Notes：

[1] These are typical values for uncoloured product at 23 ℃,and 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.

[2] The listed values are maybe different for pigmented material.

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Processing Conditions

Pre-Dry Requirements		Optimum	Range
Temp.		160℃	140℃~180℃
Time		6h	≥6h
Parameters			
Melt Temp.		340℃-360℃	330~390°C
Barrel Zone Temp.	Rear	340°C	330~350°C
	Center	350°C	340~360°C
	Front	360°C	350~390°C
Mold Temp.		140~160°C	130~180°C
Injection Speed		Moderate to High	Moderate to High

The parameter is just for referential purpose only. In actual processing, the parameter should be adjusted by construction of mold,shape and size of product, and so on.

Safety

From our experience and information, proper treatment and reasonable use of the product will not have any health hazardous effects.

These resins have a very low degree of toxicity and under normal conditions of use should pose no unusual problems from ingestion, eye, or skin contact. However, caution is advised when handling, storing, using or disposing of these resins and good housekeeping and controlling of dusts are necessary for safe handling of product. Workers should be protected from the possibility of contact with molten resin during fabrication.

Handling and fabrication of plastic resins can result in the generation of vapors and dusts. Dusts resulting from sawing, filing, and sanding of plastic parts in post-molding operations may cause irritation to eyes and the upper respiratory tract. In dusty atmospheres, use an approved dust respirator.

Good general ventilation of the polymer processing area is recommended. Processing may release fumes which may include polymer fragments and other decomposition products. Fumes can be irritating. At temperatures exceeding melt temperature, polymer fragments can occur. Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles. Use gloves with insulation for thermal protection, when needed.

In view of the high temperatures involved in processing Paryls®, great care must be exercised even more than for other thermoplastics in handling the machinery, molds, moldings and residual melts.

Notice

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product.

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