

Technical Data Sheet

Polyflam PC-FR0 BLK SF



Polycarbonate

Product Description

Polycarbonate, UL Recognized 94 V-0, 94 5VAUV Stable/Weatherable, f1 Rated - Colors Available Elevated RTI - 105°C Melt Flow Adjustable for Application UL File Number: E51193

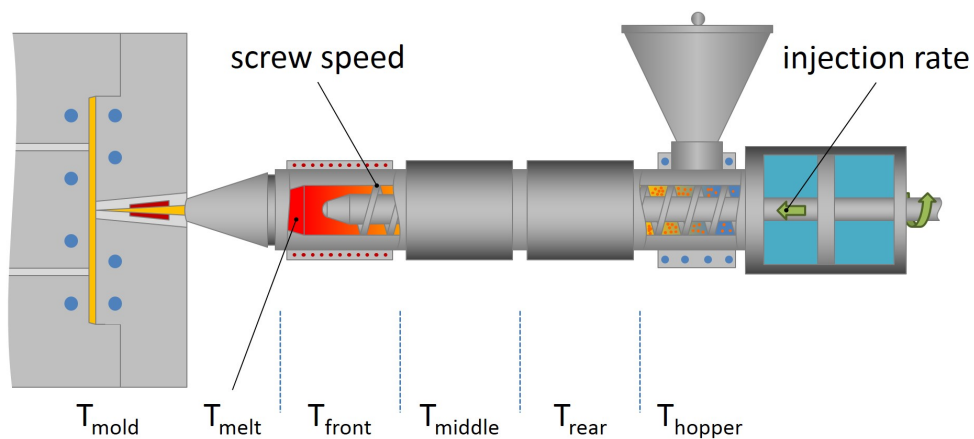
Regulatory Status

For regulatory compliance information, see PC-FR0 BLK SF [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	North America
Appearance	Colors Available

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (300 °C/2.16 kg)	10	g/10 min	ASTM D1238
Density - Specific Gravity	1.21	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield	3.8	%	ASTM D638
Tensile Strength at Yield	60	MPa	ASTM D638
Tensile Strength at Break	48	MPa	ASTM D638
Flexural Modulus	2420	MPa	ASTM D790
Tensile Elongation at Break	>60	%	ASTM D638
Tensile Modulus	2400	MPa	ASTM D638
Flexural Strength	90.3	MPa	ASTM D790
Impact			
Charpy Impact Strength - Notched			
(23 °C)	20	kJ/m ²	ISO 179
(-30 °C)	11	kJ/m ²	ISO 179
Notched Izod Impact			
(23 °C, 3.18 mm)	350	J/m	ASTM D256
(-30 °C)	120	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	122		ASTM D785
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	121	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	133	°C	ASTM D648
Coefficient of Linear Thermal Expansion (CLTE), Flow (TMA), (-40 to 95 °C)	6.1E-5	cm/cm/°C	ASTM E831
Coefficient of Linear Thermal Expansion (CLTE), Perpendicular (TMA), (-40 to 95 °C)	6.3E-5	cm/cm/°C	ASTM E831
RTI Elec	105	°C	UL 746B
RTI Imp	105	°C	UL 746B
RTI Str	105	°C	UL 746B
Electrical			

Volume Resistivity	4.6E+15 ohm*cm	ASTM D257
UL Information		
UL File Number	E51193	
Outdoor Suitability		UL 746C



Injection Parameters		Nominal Value	Units
Drying Temperature		121	°C
Suggested Max Moisture		<0.020	%
Nozzle Temperature		249 to 288	°C
Screw Speed		40 to 75	rpm
Processing (Melt) Temp		249 to 288	°C
Front Temperature		249 to 288	°C
Middle Temperature		249 to 288	°C
Rear Temperature		249 to 277	°C
Back Pressure		<0.689	MPa
Mold Temperature		71 to 104	°C

Notes

These are typical property values not to be construed as specification limits. The typical values for this product may have been tested on a natural grade.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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