Technical Data Sheet

Polyflam PC 510GF

Polycarbonate
LyondellBasell Industries
Engineering Plastics

Product Description	
Flame Retardent, 10% Glass Reinforced, Polycarbonate	
General	
Material Status	• Commercial: Active
Availability	• North America
Features	• Flame Retardant
Processing Method	• Injection Molding

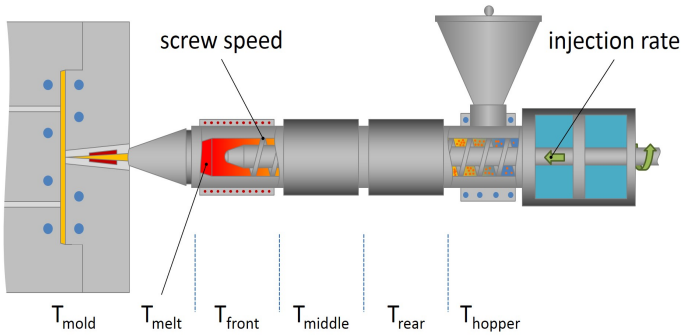
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.27	1.27 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [1] (Yield)	7980 psi	55.0 MPa	ASTM D638
Flexural Modulus [2]	450000 psi	3100 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact	2.2 ft·lb/in	120 J/m	ASTM D256
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating			UL 94
0.06 in (1.5 mm), ALL	V-0	V-0	
0.10 in (2.5 mm), ALL	5VA	5VA	
0.13 in (3.4 mm), ALL	5VA	5VA	

Technical Data Sheet

LyondellBasell

Polyflam PC 510GF

Polycarbonate
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Suggested Max Moisture	< 0.02 %	< 0.02 %
Rear Temperature	480 to 530 °F	249 to 277 °C
Middle Temperature	480 to 550 °F	249 to 288 °C
Front Temperature	480 to 550 °F	249 to 288 °C
Nozzle Temperature	480 to 550 °F	249 to 288 °C
Processing (Melt) Temp	480 to 550 °F	249 to 288 °C
Mold Temperature	160 to 220 °F	71 to 104 °C
Back Pressure	< 100 psi	< 0.689 MPa
Screw Speed	40 to 75 rpm	40 to 75 rpm

Technical Data Sheet

Polyflam PC 510GF

Polycarbonate
LyondellBasell Industries
Engineering Plastics

Notes

[1] 2.0 in/min (50 mm/min)

[2] 0.051 in/min (1.3 mm/min)

Notes

These are typical property values not to be construed as specification limits.

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.