

# Infino XP-2165MC

Polyphenylene Sulfide  
Lotte Chemical Corporation

**PROSPECTOR**<sup>®</sup>

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## Technical Data

### Product Description

Infino XP-2165MC is a Polyphenylene Sulfide (PPS) material filled with glass\mineral. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary attribute of Infino XP-2165MC: Flame Rated.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing (English)</a> • <a href="#">Technical Information - ASTM (English)</a> • <a href="#">Technical Information - ISO (English)</a>
Search for UL Yellow Card	• <a href="#">Lotte Chemical Corporation</a> • <a href="#">Infino</a>
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Filler / Reinforcement	• Glass\Mineral

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity (Natural)	1.96 g/cm <sup>3</sup>	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (315°C/5.0 kg)	80 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage - Flow		
3.20 mm	0.25 to 0.80 %	ASTM D955
2.00 mm	0.25 to 0.80 %	ISO 294-4
Water Absorption (Saturation, 23°C)	0.020 %	ASTM D570 ISO 62

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- <sup>3</sup>	14900 MPa	ASTM D638
--	10700 MPa	ISO 527-1/50
Tensile Strength		
Yield <sup>3</sup>	147 MPa	ASTM D638
Yield	150 MPa	ISO 527-2/50
Break <sup>3</sup>	159 MPa	ASTM D638
Break	188 MPa	ISO 527-2/50
Tensile Elongation		
Break <sup>3</sup>	1.5 %	ASTM D638
Break	2.0 %	ISO 527-2/50
Flexural Modulus		
-- <sup>4</sup>	17700 MPa	ASTM D790
-- <sup>5</sup>	18000 MPa	ISO 178
Flexural Strength		
-- <sup>4</sup>	196 MPa	ASTM D790
-- <sup>5</sup>	240 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C, 3.18 mm	59 J/m	ASTM D256
23°C, 6.35 mm	53 J/m	ASTM D256
23°C <sup>6</sup>	5.0 kJ/m <sup>2</sup>	ISO 180/1A

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	121	ASTM D785 ISO 2039-2



Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 6.40 mm	284 °C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	285 °C	ISO 75-2/B
0.45 MPa, Annealed, 4.00 mm	283 °C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	270 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	272 °C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	274 °C	ISO 75-2/A

Electrical	Nominal Value Unit	Test Method
Volume Resistivity <sup>7</sup> (23°C)	1.0E+16 ohms·cm	ASTM D257
Dielectric Loss - Tangent <sup>8</sup>	0.00700	ASTM D150

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	V-0 5VA	UL 94

Injection	Nominal Value Unit
Drying Temperature	
Desiccant Dryer	120 °C
Hot Air Dryer	120 °C
Drying Time	
Desiccant Dryer	2.0 to 4.0 hr
Hot Air Dryer	4.0 to 6.0 hr
Suggested Max Moisture	< 0.050 %
Rear Temperature	280 to 290 °C
Middle Temperature	290 to 300 °C
Front Temperature	310 to 320 °C
Nozzle Temperature	330 °C
Mold Temperature	120 to 150 °C
Injection Pressure	49.0 to 127 MPa
Back Pressure	0.490 to 1.96 MPa
Screw Speed	50 to 150 rpm

**Injection Notes**  
 Hot Runner Temperature: 310°C

**Notes**

- <sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- <sup>2</sup> Typical properties: these are not to be construed as specifications.
- <sup>3</sup> 5.0 mm/min
- <sup>4</sup> 2.8 mm/min
- <sup>5</sup> 2.0 mm/min
- <sup>6</sup> 4mm
- <sup>7</sup> 50% RH
- <sup>8</sup> 10E6Hz



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## Where to Buy

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### Supplier

**Lotte Chemical Corporation**  
Seoul, Seoul South Korea  
**Telephone:** +82-2-829-4114  
**Web:** <http://english.lottechem.com/>

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### Distributor

**Advanced Plastics, Inc**  
**Telephone:** 847-550-5556  
**Web:** <http://www.apikolon.com/>  
**Availability:** Mexico, North America, South America

**Amco Polymers**  
**Telephone:** 800-262-6685  
**Web:** <http://www.amcopolymers.com/>  
**Availability:** North America

**Channel Prime Alliance**  
**Telephone:** 800-247-8038  
**Web:** <http://www.channelpa.com/>  
**Availability:** North America

**GAZECHIM PLASTIQUES**  
*GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.*  
**Telephone:** +33-4-67-49-55-37  
**Web:** <http://www.gazechim.com/>  
**Availability:** Belgium, France, Netherlands, Romania, United Kingdom

**Osterman & Company**  
**Telephone:** 800-914-4437  
**Web:** <http://www.osterman-co.com/>  
**Availability:** North America

**RESINEX Group**  
*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*  
**Telephone:** +32-14-672511  
**Web:** <http://www.resinex.com/>  
**Availability:** Europe

**TER HELL Plastic GmbH**  
*TER HELL Plastic is a Pan European distribution company. Contact TER HELL Plastic for availability of individual products by country.*  
**Telephone:** +49-2366-5661-0  
**Web:** <https://www.terplastics.com/>  
**Availability:** Germany

**Tex-Co Resin Distribution, Inc.**  
**Telephone:** 877-908-3926  
**Web:** <http://www.texcoresin.com/>  
**Availability:** North America

**The Materials Group**  
**Telephone:** 616-863-6046  
**Web:** <http://thematerialsgroup.com/>  
**Availability:** North America

