

# POLYLAC® PA-765

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

F.R. High flow

### General

Material Status	<ul style="list-style-type: none"><li>Commercial: Active</li></ul>
Literature <sup>1</sup>	<ul style="list-style-type: none"><li>Processing (English)</li><li>Technical Datasheet - ASTM (Chinese)</li><li>Technical Datasheet - ASTM (English)</li><li>Technical Datasheet - ISO (English)</li></ul>
UL Yellow Card <sup>2</sup>	<ul style="list-style-type: none"><li>E56070-101317482</li><li>E56070-565073</li></ul>
Search for UL Yellow Card	<ul style="list-style-type: none"><li>CHI MEI CORPORATION</li><li>POLYLAC®</li></ul>
Availability	<ul style="list-style-type: none"><li>Africa &amp; Middle East</li><li>Asia Pacific</li><li>Europe</li><li>Latin America</li><li>North America</li></ul>
Additive	<ul style="list-style-type: none"><li>Flame Retardant</li></ul>
Features	<ul style="list-style-type: none"><li>Flame Retardant</li><li>High Flow</li></ul>
RoHS Compliance	<ul style="list-style-type: none"><li>RoHS Compliant</li></ul>
Resin ID (ISO 1043)	<ul style="list-style-type: none"><li>&gt;ABS-FR(17)&lt;</li></ul>

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity		
-- <sup>4</sup>	1.19 g/cm <sup>3</sup>	ASTM D792
23°C	1.19 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	5.0 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	58 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.30 to 0.60 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield <sup>5</sup>	38.1 MPa	ASTM D638
Yield	38.0 MPa	ISO 527-2/50
Break	29.0 MPa	ISO 527-2/50
Tensile Elongation		
Break <sup>5</sup>	15 %	ASTM D638
Break	10 %	ISO 527-2/50
Flexural Modulus		
-- <sup>6</sup>	2070 MPa	ASTM D790
-- <sup>7</sup>	1800 MPa	ISO 178
Flexural Strength		
-- <sup>6</sup>	60.7 MPa	ASTM D790
-- <sup>7</sup>	55.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-30°C	10 kJ/m <sup>2</sup>	
23°C	22 kJ/m <sup>2</sup>	
Notched Izod Impact		
23°C, 3.20 mm	210 J/m	ASTM D256
23°C, 6.40 mm	180 J/m	ASTM D256
-30°C	9.0 kJ/m <sup>2</sup>	ISO 180/1A
23°C	21 kJ/m <sup>2</sup>	ISO 180/1A

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	100	ASTM D785



Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed	73.0 °C	ASTM D648
1.8 MPa, Unannealed	74.0 °C	ISO 75-2/A
1.8 MPa, Annealed	83.0 °C	ASTM D648 ISO 75-2/A

Vicat Softening Temperature		
--	90.0 °C	ASTM D1525 <sup>8</sup>
--	78.0 °C	ISO 306/B50
--	91.0 °C	ISO 306/A50
CLTE - Flow	8.4E-5 cm/cm/°C	ISO 11359-2

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.0 mm	V-1	
1.5 mm	V-0	
	5VB	
2.5 mm	5VA	

Injection	Nominal Value Unit
Drying Temperature	80 to 85 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	180 to 210 °C
Middle Temperature	190 to 220 °C
Front Temperature	190 to 220 °C
Mold Temperature	40 to 70 °C
Injection Pressure	4.90 to 7.85 MPa
Injection Rate	Slow-Moderate
Holding Pressure	1.96 to 4.90 MPa
Back Pressure	0.490 to 0.981 MPa
Cushion	3.18 mm

## 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> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 23°C

<sup>5</sup> 6.0 mm/min

<sup>6</sup> 2.8 mm/min

<sup>7</sup> 2.0 mm/min

<sup>8</sup> Rate A (50°C/h), Loading 1 (10 N)



## Where to Buy

### Supplier

#### CHI MEI CORPORATION

Tainan County, Tainan County Taiwan  
**Telephone:** +886-6-266-3000  
**Web:** <http://www.chimeicorp.com/>

### Distributor

#### AMP FRANCE

**Telephone:** +33-3-8920-1390  
**Web:** <http://www.amp.fr/>  
**Availability:** France

#### AMP TUNISIA

**Telephone:** +216-52-27-21-73  
**Web:** <http://www.amp.fr/>  
**Availability:** Tunisia

#### Calsak Polymers

**Telephone:** 800-743-2595  
**Web:** <http://www.calsak.com/>  
**Availability:** North America

#### Distrupol Ltd

*Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.*  
**Telephone:** 08452003040  
**Web:** <http://www.distrupol.com/>  
**Availability:** Ireland, United Kingdom

#### Entec Polymers

**Telephone:** 833-319-0299  
**Web:** [https://www.entecpolymers.com/?utm\\_source=ul&utm\\_medium=paid%20association&utm\\_campaign=entec%20%7C%20entec%201&utm\\_term=ul%20%7C%20where%20to%20buy](https://www.entecpolymers.com/?utm_source=ul&utm_medium=paid%20association&utm_campaign=entec%20%7C%20entec%201&utm_term=ul%20%7C%20where%20to%20buy)  
**Availability:** North America

#### M. Holland Canada Company

**Telephone:** 905-665-1168  
**Web:** <http://www.mholland.com/>  
**Availability:** Canada

#### M. Holland Company

**Telephone:** 855-497-1403  
**Web:** <http://www.mholland.com/>  
**Availability:** Mexico, United States

#### The Materials Group

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

