

# POLYLAC® PA-757

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

POLYLAC® PA-757 is an Acrylonitrile Butadiene Styrene (ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- High Gloss
- Impact Resistant

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing (English)</a> • <a href="#">Technical Datasheet - ASTM (Chinese)</a> • <a href="#">Technical Datasheet - ASTM (English)</a> • <a href="#">Technical Datasheet - ISO (Chinese)</a> • <a href="#">Technical Datasheet - ISO (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E56070-565071</a> • <a href="#">E194560-624331</a>
Search for UL Yellow Card	• <a href="#">CHI MEI CORPORATION</a> • <a href="#">POLYLAC®</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• High Gloss • Medium Impact Resistance
RoHS Compliance	• RoHS Compliant
Resin ID (ISO 1043)	• >ABS<

Physical	Nominal Value Unit	Test Method
Specific Gravity		
-- <sup>4</sup>	1.05 g/cm <sup>3</sup>	ASTM D792
23°C	1.05 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.6 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	18.0 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage	0.40 to 0.70 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield <sup>5</sup>	45.9 MPa	ASTM D638
Yield	47.0 MPa	ISO 527-2/50
Break	34.0 MPa	ISO 527-2/50
Tensile Elongation		
Break <sup>5</sup>	25 %	ASTM D638
Break	30 %	ISO 527-2/50
Flexural Modulus		
-- <sup>6</sup>	2620 MPa	ASTM D790
-- <sup>7</sup>	2200 MPa	ISO 178
Flexural Strength		
-- <sup>6</sup>	80.4 MPa	ASTM D790
-- <sup>7</sup>	76.0 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	21 kJ/m <sup>2</sup>	



Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C, 3.20 mm	210 J/m	ASTM D256
23°C, 6.40 mm	200 J/m	ASTM D256
-30°C	9.0 kJ/m <sup>2</sup>	ISO 180/1A
23°C	19 kJ/m <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	116	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed	85.0 °C	ASTM D648
1.8 MPa, Unannealed	83.0 °C	ISO 75-2/A
1.8 MPa, Annealed	95.0 °C	ASTM D648
1.8 MPa, Annealed	98.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	105 °C	ASTM D1525 <sup>8</sup>
--	104 °C	ISO 306/A50
--	100 °C	ISO 306/B50
CLTE - Flow	8.6E-5 cm/cm/°C	ISO 11359-2
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.5 mm)	HB	UL 94
Injection	Nominal Value Unit	
Drying Temperature	80 to 85 °C	
Drying Time	2.0 to 4.0 hr	
Rear Temperature	180 to 220 °C	
Middle Temperature	190 to 230 °C	
Front Temperature	190 to 230 °C	
Mold Temperature	30 to 70 °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> 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, Taiwan  
Telephone: +886-6-266-3000  
Web: <http://www.chimeicorp.com/>

### Distributor

**A. Westensee und Partner Rohstoff GmbH**  
Telephone: +49-4171-8812-0  
Web: <http://www.awp-rohstoffe.de/>  
Availability: Germany

**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

**Biesterfeld Plastic GmbH**  
*Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.*  
Telephone: +49-40-32008-0  
Web: <http://www.biesterfeld-plastic.com/>  
Availability: Algeria, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Egypt, Faroe Islands, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey

**Calsak Polymers**  
Telephone: 800-743-2595  
Web: <http://www.calsakpolymers.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: 800-375-5440  
Web: <http://www.entecpolymers.com/>  
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

**Plastribution**  
Telephone: +44-845-345-4560  
Web: <http://www.plastribution.co.uk/>  
Availability: United Kingdom

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

