

# POLYLAC® PA-757

Acrylonitrile Butadiene Styrene  
CHI MEI CORPORATION

# PROSPECTOR®

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## Technical Data

### Product Description

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

Characteristics include:

- Flame Rated
- RoHS Compliant

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• Processing (English) • Technical Datasheet - ASTM (English) • Technical Datasheet - ISO (English)
UL Yellow Card <sup>2</sup>	• E56070-565071
Search for UL Yellow Card	• CHI MEI CORPORATION • POLYLAC®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity		
--	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)		ASTM D1238
200°C/5.0 kg	1.6 g/10 min	
220°C/10.0 kg	22 g/10 min	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	22.0 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value Unit	Test Method
Tensile Stress		
Yield	54.0 MPa	ISO 527-2/50
Break	37.0 MPa	ISO 527-2/50
3.00 mm <sup>4</sup>	45.1 MPa	ASTM D638
Tensile Elongation		
Break, 3.00 mm <sup>4</sup>	25 %	ASTM D638
Break	20 %	ISO 527-2/50
Flexural Modulus		
6.00 mm <sup>5</sup>	2650 MPa	ASTM D790
-- <sup>6</sup>	2200 MPa	ISO 178
Flexural Strength		
6.00 mm <sup>5</sup>	77.5 MPa	ASTM D790
-- <sup>6</sup>	76.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength	20 kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength	No Break	ISO 179
Notched Izod Impact		
23°C, 3.00 mm	210 J/m	ASTM D256
23°C, 6.00 mm	180 J/m	ASTM D256
--	18 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength	60 kJ/m <sup>2</sup>	ISO 180/1U



Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	116	ASTM D785
Ball Indentation Hardness (H 358/30)	110 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed	85.0 °C	ASTM D648
1.8 MPa, Unannealed	88.0 °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>7</sup>
--	104 °C	ISO 306/A50
--	100 °C	ISO 306/B50
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.60 mm)	HB	UL 94
Injection	Nominal Value Unit	
Drying Temperature	80.0 to 85.0 °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	30.0 to 70.0 °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> 6.0 mm/min

<sup>5</sup> 2.8 mm/min

<sup>6</sup> 2.0 mm/min

<sup>7</sup> Rate A (50°C/h)



## 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, 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

#### **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

