

# POLYLAC® PA-737

Acrylonitrile Butadiene Styrene  
CHI MEI CORPORATION

# PROSPECTOR®

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## Technical Data

### Product Description

POLYLAC® PA-737 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>	• <a href="#">Processing (English)</a> • <a href="#">Technical Datasheet - ASTM (English)</a> • <a href="#">Technical Datasheet - ISO (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E56070-245713</a>
Search for UL Yellow Card	• <a href="#">CHI MEI CORPORATION</a> • <a href="#">POLYLAC®</a>
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity			
--	1.04	1.04 g/cm <sup>3</sup>	ASTM D792
73°F (23°C)	1.04 g/cm <sup>3</sup>	1.04 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	2.6 g/10 min	2.6 g/10 min	
220°C/10.0 kg	33 g/10 min	33 g/10 min	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	2.01 in <sup>3</sup> /10min	33.0 cm <sup>3</sup> /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			
Yield	5510 psi	38.0 MPa	ISO 527-2/50
Break	4640 psi	32.0 MPa	ISO 527-2/50
0.118 in (3.00 mm) <sup>4</sup>	5120 psi	35.3 MPa	ASTM D638
Tensile Elongation			
Break, 0.118 in (3.00 mm) <sup>4</sup>	22 %	22 %	ASTM D638
Break	20 %	20 %	ISO 527-2/50
Flexural Modulus			
0.236 in (6.00 mm) <sup>5</sup>	284000 psi	1960 MPa	ASTM D790
-- <sup>6</sup>	276000 psi	1900 MPa	ISO 178
Flexural Strength			
0.236 in (6.00 mm) <sup>5</sup>	8390 psi	57.9 MPa	ASTM D790
-- <sup>6</sup>	8700 psi	60.0 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	10 ft·lb/in <sup>2</sup>	21 kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact			
73°F (23°C), 0.118 in (3.00 mm)	4.6 ft·lb/in	250 J/m	ASTM D256
73°F (23°C), 0.236 in (6.00 mm)	3.3 ft·lb/in	180 J/m	ASTM D256
--	9.0 ft·lb/in <sup>2</sup>	19 kJ/m <sup>2</sup>	ISO 180/1A

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	103	103	ASTM D785
Ball Indentation Hardness (H 358/30)	13600 psi	94.0 MPa	ISO 2039-1



Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
264 psi (1.8 MPa), Unannealed	181 °F	83.0 °C	ASTM D648 ISO 75-2/A
264 psi (1.8 MPa), Annealed	199 °F	93.0 °C	ASTM D648
264 psi (1.8 MPa), Annealed	201 °F	94.0 °C	ISO 75-2/A
Vicat Softening Temperature			
--	214 °F	101 °C	ASTM D1525 <sup>7</sup>
--	210 °F	99.0 °C	ISO 306/A50
--	203 °F	95.0 °C	ISO 306/B50

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.0630 in (1.60 mm))	HB	HB	UL 94

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 to 185 °F	80.0 to 85.0 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	356 to 428 °F	180 to 220 °C
Middle Temperature	374 to 446 °F	190 to 230 °C
Front Temperature	374 to 446 °F	190 to 230 °C
Mold Temperature	86.0 to 158 °F	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> 0.24 in/min (6.0 mm/min)

<sup>5</sup> 0.11 in/min (2.8 mm/min)

<sup>6</sup> 0.079 in/min (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, 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

**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

