## **POLYLAC® PA-746**

# Acrylonitrile Butadiene Styrene CHI MEI CORPORATION



#### **Technical Data**

#### **Product Description**

POLYLAC® PA-746 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 Flow
- Impact Resistant

• Impact Nesistant			
General			
Material Status	<ul> <li>Commercial: Active</li> </ul>		
Literature <sup>1</sup>	<ul> <li>Processing (English)</li> <li>Technical Datasheet - AST</li> <li>Technical Datasheet - AST</li> <li>Technical Datasheet - ISO</li> </ul>	M (English)	
UL Yellow Card <sup>2</sup>	• E56070-245714		
Search for UL Yellow Card	<ul><li>CHI MEI CORPORATION</li><li>POLYLAC®</li></ul>		
Availability	<ul><li>Africa &amp; Middle East</li><li>Asia Pacific</li></ul>	<ul><li>Europe</li><li>Latin America</li></ul>	North America
Features	<ul> <li>High Flow</li> </ul>	Medium Impact Resista	ance
RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>		
Resin ID (ISO 1043)	<ul><li>&gt;ABS</li></ul>		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity		
4	1.03 g/cm³	ASTM D792
23°C	1.03 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	29 cm³/10min	ISO 1133
Molding Shrinkage	0.40 to 0.70 %	ISO 294-4
Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield <sup>5</sup>	40.6 MPa	ASTM D638
Yield	39.0 MPa	ISO 527-2/50
Break	29.0 MPa	ISO 527-2/50
Tensile Elongation		
Break <sup>5</sup>	30 %	ASTM D638
Break	30 %	ISO 527-2/50
Flexural Modulus		
6	2140 MPa	ASTM D790
7	1800 MPa	ISO 178
Flexural Strength		
6	63.4 MPa	ASTM D790
7	60.0 MPa	ISO 178



www.ulprospector.com

Impact	Nominal Value Unit	Test Method	
Charpy Notched Impact Strength		ISO 179	
-30°C	14 kJ/m²		
23°C	30 kJ/m²		
Notched Izod Impact			
23°C, 3.20 mm	320 J/m	ASTM D256	
23°C, 6.40 mm	260 J/m	ASTM D256	
-30°C	12 kJ/m²	ISO 180/1A	
23°C	28 kJ/m²	ISO 180/1A	
Hardness	Nominal Value Unit	Test Method	
Rockwell Hardness (R-Scale)	118	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	82.0 °C	ISO 75-2/A	
1.8 MPa, Annealed	95.0 °C	ASTM D648	
1.8 MPa, Annealed	96.0 °C	ISO 75-2/A	
Vicat Softening Temperature			
	105 °C	ASTM D1525 8	
	94.0 °C	ISO 306/B50	
	103 °C	ISO 306/A50	
CLTE - Flow	9.2E-5 cm/cm/°C	ISO 11359-2	
Flammability	Nominal Value Unit	Test Method	
Flame Rating (1.8 mm)	НВ	UL 94	
Injection	Nominal Value Unit		
Drying Temperature	80 to 85 °C		
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr	
Rear Temperature	180 to 220 °C	180 to 220 °C	
Middle Temperature	190 to 230 °C		
Front Temperature	190 to 230 °C		

#### **Notes**

30 to 60 °C

Mold Temperature

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

<sup>&</sup>lt;sup>4</sup> 23°C

<sup>&</sup>lt;sup>5</sup> 6.0 mm/min

<sup>&</sup>lt;sup>6</sup> 2.8 mm/min

<sup>&</sup>lt;sup>7</sup> 2.0 mm/min

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

#### **CHI MEI CORPORATION**



## 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

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

