POLYLAC® PA-757

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

Technical Data

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity			
--	1.05	1.05 g/cm³	ASTM D792
73°F (23°C)	1.05 g/cm³	1.05 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238
200°C/5.0 kg	1.6 g/10 min	1.6 g/10 min	
220°C/10.0 kg	22 g/10 min	22 g/10 min	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	1.34 in³/10min	22.0 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Stress			
Yield	7830 psi	54.0 MPa	ISO 527-2/50
Break	5370 psi	37.0 MPa	ISO 527-2/50
0.118 in (3.00 mm) [4]	6540 psi	45.1 MPa	ASTM D638
Tensile Elongation			
Break, 0.118 in (3.00 mm) [4]	25 %	25 %	ASTM D638
Break	20 %	20 %	ISO 527-2/50
Flexural Modulus			
0.236 in (6.00 mm) [5]	384000 psi	2650 MPa	ASTM D790
-- [6]	319000 psi	2200 MPa	ISO 178
Flexural Strength			
0.236 in (6.00 mm) [5]	11200 psi	77.5 MPa	ASTM D790
-- [6]	11000 psi	76.0 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength	9.5 ft·lb/in²	20 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break	ISO 179
Notched Izod Impact			
73°F (23°C), 0.118 in (3.00 mm)	3.9 ft·lb/in	210 J/m	ASTM D256
73°F (23°C), 0.236 in (6.00 mm)	3.3 ft·lb/in	180 J/m	ASTM D256
--	8.6 ft·lb/in²	18 kJ/m²	ISO 180/1A
Unnotched Izod Impact Strength	29 ft·lb/in²	60 kJ/m²	ISO 180/1U
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-Scale)	116	116	ASTM D785
Ball Indentation Hardness (H 358/30)	16000 psi	110 MPa	ISO 2039-1

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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
264 psi (1.8 MPa), Unannealed	185 °F	85.0 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	190 °F	88.0 °C	ISO 75-2/A
264 psi (1.8 MPa), Annealed	203 °F	95.0 °C	ASTM D648
264 psi (1.8 MPa), Annealed	208 °F	98.0 °C	ISO 75-2/A
Vicat Softening Temperature			
--	221 °F	105 °C	ASTM D1525 [7]
--	219 °F	104 °C	ISO 306/A50
--	212 °F	100 °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

[1] 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.

[2] A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES 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.

[3] Typical properties: these are not to be construed as specifications.

[4] 0.24 in/min (6.0 mm/min)

[5] 0.11 in/min (2.8 mm/min)

[6] 0.079 in/min (2.0 mm/min)

[7] Rate A (50°C/h)

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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

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– Kevin Chase, Owner & President, Chase Plastics

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