POLYLAC® PA-765A

Acrylonitrile Butadiene Styrene CHI MEI CORPORATION

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Technical Data

General							
Material Status	Comme	ercial: Active					
Literature ¹	ProcesTechnicTechnic	 Processing (English) Technical Datasheet - ASTM (English) Technical Datasheet - ISO (English) 					
UL Yellow Card ²	E56070E56070)-565074)-565073					
Search for UL Yellow Card	CHI ME POLYL	EI CORPORATION AC®					
Availability	 Africa & Asia Pa 	a & Middle East • Europe Pacific • Latin Amer		North AmericaSouth America			
RoHS Compliance	 RoHS (Compliant					
Processing Method	 Injectio 	n Molding					
Physical		Nominal Value (English)	Nominal Value (SI)	Test Method		
Specific Gravity							
-		1.17		1.17 g/cm ³	ASTM D792		
	1.17 g/cm		/cm³	1.17 g/cm ³	ISO 1183		
Melt Mass-Flow Rate (MFR)					ASTM D1238		
200°C/5.0 kg		4.6 g/10 min		4.6 g/10 min			
220°C/10.0 kg		46 g/10 min		46 g/10 min			
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)		2.81 in ³ /10min		46.0 cm3/10min	ISO 1133		
Mechanical		Nominal Value (I	English)	Nominal Value (SI)	Test Method		
Tensile Stress							
Yield		5800 p	si	40.0 MPa	ISO 527-2/50		
Break		4060 psi		28.0 MPa	ISO 527-2/50		
0.118 in (3.00 mm) ⁴		5690 psi		39.2 MPa	ASTM D638		
Tensile Elongation							
Break, 0.118 in (3.00 mm) ⁴		20 %	0	20 %	ASTM D638		
Break		10 %		10 %	ISO 527-2/50		
Flexural Modulus							
0.236 in (6.00 mm) ⁵		327000 p	si	2260 MPa	ASTM D790		
6		247000 p	si	1700 MPa	ISO 178		
Flexural Strength							
0.236 in (6.00 mm) ⁵		9100 p	si	62.8 MPa	ASTM D790		
6		7830 p	si	54.0 MPa	ISO 178		
Impact		Nominal Value (English)	Nominal Value (SI)	Test Method		
Charpy Notched Impact Strength		9.5 ft	·lb/in²	20 kJ/m ²	ISO 179		
Notched Izod Impact							
73°F (23°C), 0.118 in (3.00 mm)		4.4 ft	·lb/in	240 J/m	ASTM D256		
73°F (23°C), 0.236 in (6.00 mm)		3.7 ft·lb/in		200 J/m	ASTM D256		
-		9.0 ft	·lb/in²	19 kJ/m ²	ISO 180/1A		
Hardness		Nominal Value (I	English)	Nominal Value (SI)	Test Method		
Rockwell Hardness (R-Scale)		101	· · · · ·	101	ASTM D785		
Ball Indentation Hardness (H 358/30)		11700 psi		81.0 MPa	ISO 2039-1		

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The information presented on this datasheet was acquired by UL IDES from the producer of the material. UL IDES makes substantial efforts to assure the accuracy of this data. However, UL IDES assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
264 psi (1.8 MPa), Unannealed	169 °F	76.0 °C	ASTM D648 ISO 75-2/A
264 psi (1.8 MPa), Annealed	185 °F	85.0 °C	ASTM D648
264 psi (1.8 MPa), Annealed	196 °F	91.0 °C	ISO 75-2/A
Vicat Softening Temperature			
	198 °F	92.0 °C	ASTM D1525 7
	194 °F	90.0 °C	ISO 306/A50
	174 °F	79.0 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.0591 in (1.50 mm)	V-1	V-1	
0.0787 in (2.00 mm)	V-0	V-0	
0.0827 in (2.10 mm)	V-0	V-0	
0.0984 in (2.50 mm)	5VA	5VA	

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 410 °F	180 to 210 °C	
Middle Temperature	374 to 428 °F	190 to 220 °C	
Front Temperature	374 to 428 °F	190 to 220 °C	
Mold Temperature	104 to 158 °F	40.0 to 70.0 °C	
Injection Pressure	711 to 1140 psi	4.90 to 7.85 MPa	
Injection Rate	Slow-Moderate	Slow-Moderate	
Holding Pressure	284 to 711 psi	1.96 to 4.90 MPa	
Back Pressure	71.1 to 142 psi	0.490 to 0.981 MPa	
Cushion	0.125 in	3.18 mm	

Notes

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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

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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