

POLYLAC® PA-758

Methyl Methacrylate / ABS

CHI MEI CORPORATION

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description			
Transparent			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• >MABS<		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.08	1.08 g/cm ³	ASTM D792
73°F (23°C)	1.08 g/cm ³	1.08 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.0 g/10 min	3.0 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage	0.30 to 0.70 %	0.30 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress			
Yield	6090 psi	42.0 MPa	ISO 527-2/50
Break	4790 psi	33.0 MPa	ISO 527-2/50
-- ²	5760 psi	39.7 MPa	ASTM D638
Tensile Elongation			
Break ²	40 %	40 %	ASTM D638
Break	40 %	40 %	ISO 527-2/50
Flexural Modulus			
-- ³	276000 psi	1900 MPa	ASTM D790
-- ⁴	276000 psi	1900 MPa	ISO 178
Flexural Strength			
-- ³	7820 psi	53.9 MPa	ASTM D790
-- ⁴	8270 psi	57.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	3.3 ft·lb/in ²	7.0 kJ/m ²	
73°F (23°C)	6.7 ft·lb/in ²	14 kJ/m ²	
Notched Izod Impact			
73°F (23°C), 0.126 in (3.20 mm)	2.8 ft·lb/in	150 J/m	ASTM D256
73°F (23°C), 0.252 in (6.40 mm)	2.9 ft·lb/in	160 J/m	ASTM D256
-22°F (-30°C)	3.3 ft·lb/in ²	7.0 kJ/m ²	ISO 180/1A
73°F (23°C)	6.7 ft·lb/in ²	14 kJ/m ²	ISO 180/1A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	107	107	ASTM D785



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Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
264 psi (1.8 MPa), Unannealed	190 °F	88.0 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	171 °F	77.0 °C	ISO 75-2/A
264 psi (1.8 MPa), Annealed	210 °F	99.0 °C	ASTM D648
264 psi (1.8 MPa), Annealed	207 °F	97.0 °C	ISO 75-2/A
Vicat Softening Temperature			
--	221 °F	105 °C	ASTM D1525 ⁵
--	219 °F	104 °C	ISO 306/A50
--	205 °F	96.0 °C	ISO 306/B50
CLTE - Flow	5.0E-5 in/in/°F	9.0E-5 cm/cm/°C	ISO 11359-2

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.5 mm))	HB	HB	UL 94

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	185 °F	85 °C
Drying Time	3.0 to 5.0 hr	3.0 to 5.0 hr
Rear Temperature	392 to 428 °F	200 to 220 °C
Middle Temperature	428 to 482 °F	220 to 250 °C
Front Temperature	428 to 482 °F	220 to 250 °C
Processing (Melt) Temp	446 to 464 °F	230 to 240 °C
Mold Temperature	122 to 158 °F	50 to 70 °C
Injection Pressure	711 to 1140 psi	4.90 to 7.85 MPa
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

Notes¹ Typical properties: these are not to be construed as specifications.² 0.24 in/min (6.0 mm/min)³ 0.11 in/min (2.8 mm/min)⁴ 0.079 in/min (2.0 mm/min)⁵ Rate A (50°C/h), Loading 1 (10 N)

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

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: 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

