

POLYLAC® PA-765

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

F.R. High flow

General

| | |
|-----------------------------|--|
| Material Status | <ul style="list-style-type: none">Commercial: Active |
| Literature ¹ | <ul style="list-style-type: none">Processing (English)Technical Datasheet - ASTM (Chinese)Technical Datasheet - ASTM (English)Technical Datasheet - ISO (English) |
| UL Yellow Card ² | <ul style="list-style-type: none">E56070-101317482E56070-565073 |
| Search for UL Yellow Card | <ul style="list-style-type: none">CHI MEI CORPORATIONPOLYLAC® |
| Availability | <ul style="list-style-type: none">Africa & Middle EastAsia PacificEuropeLatin AmericaNorth America |
| Additive | <ul style="list-style-type: none">Flame Retardant |
| Features | <ul style="list-style-type: none">Flame RetardantHigh Flow |
| RoHS Compliance | <ul style="list-style-type: none">RoHS Compliant |
| Resin ID (ISO 1043) | <ul style="list-style-type: none">>ABS-FR(17)< |

| Physical | Nominal Value Unit | Test Method |
|---|---------------------------|-------------|
| Density / Specific Gravity | | |
| -- ⁴ | 1.19 g/cm ³ | ASTM D792 |
| 23°C | 1.19 g/cm ³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 5.0 g/10 min | ASTM D1238 |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 58 cm ³ /10min | ISO 1133 |
| Molding Shrinkage | 0.30 to 0.60 % | ISO 294-4 |

| Mechanical | Nominal Value Unit | Test Method |
|--------------------|--------------------|--------------|
| Tensile Strength | | |
| Yield ⁵ | 38.1 MPa | ASTM D638 |
| Yield | 38.0 MPa | ISO 527-2/50 |
| Break | 29.0 MPa | ISO 527-2/50 |
| Tensile Elongation | | |
| Break ⁵ | 15 % | ASTM D638 |
| Break | 10 % | ISO 527-2/50 |
| Flexural Modulus | | |
| -- ⁶ | 2070 MPa | ASTM D790 |
| -- ⁷ | 1800 MPa | ISO 178 |
| Flexural Strength | | |
| -- ⁶ | 60.7 MPa | ASTM D790 |
| -- ⁷ | 55.0 MPa | ISO 178 |

| Impact | Nominal Value Unit | Test Method |
|--------------------------------|-----------------------|-------------|
| Charpy Notched Impact Strength | | ISO 179 |
| -30°C | 10 kJ/m ² | |
| 23°C | 22 kJ/m ² | |
| Notched Izod Impact | | |
| 23°C, 3.20 mm | 210 J/m | ASTM D256 |
| 23°C, 6.40 mm | 180 J/m | ASTM D256 |
| -30°C | 9.0 kJ/m ² | ISO 180/1A |
| 23°C | 21 kJ/m ² | ISO 180/1A |

| Hardness | Nominal Value Unit | Test Method |
|-----------------------------|--------------------|-------------|
| Rockwell Hardness (R-Scale) | 100 | ASTM D785 |



| Thermal | Nominal Value Unit | Test Method |
|-----------------------------------|--------------------|-------------------------|
| Deflection Temperature Under Load | | |
| 1.8 MPa, Unannealed | 73.0 °C | ASTM D648 |
| 1.8 MPa, Unannealed | 74.0 °C | ISO 75-2/A |
| 1.8 MPa, Annealed | 83.0 °C | ASTM D648 ISO 75-2/A |

| | | |
|-----------------------------|-----------------|-------------------------|
| Vicat Softening Temperature | | |
| -- | 90.0 °C | ASTM D1525 ⁸ |
| -- | 78.0 °C | ISO 306/B50 |
| -- | 91.0 °C | ISO 306/A50 |
| CLTE - Flow | 8.4E-5 cm/cm/°C | ISO 11359-2 |

| Flammability | Nominal Value Unit | Test Method |
|--------------|--------------------|-------------|
| Flame Rating | | UL 94 |
| 1.0 mm | V-1 | |
| 1.5 mm | V-0 | |
| | 5VB | |
| 2.5 mm | 5VA | |

| Injection | Nominal Value Unit |
|--------------------|--------------------|
| Drying Temperature | 80 to 85 °C |
| Drying Time | 2.0 to 4.0 hr |
| Rear Temperature | 180 to 210 °C |
| Middle Temperature | 190 to 220 °C |
| Front Temperature | 190 to 220 °C |
| Mold Temperature | 40 to 70 °C |
| Injection Pressure | 4.90 to 7.85 MPa |
| Injection Rate | Slow-Moderate |
| Holding Pressure | 1.96 to 4.90 MPa |
| Back Pressure | 0.490 to 0.981 MPa |
| Cushion | 3.18 mm |

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 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.

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

⁴ 23°C

⁵ 6.0 mm/min

⁶ 2.8 mm/min

⁷ 2.0 mm/min

⁸ Rate A (50°C/h), Loading 1 (10 N)



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

