# POLYLAC® PA-758

Acrylonitrile Butadiene Styrene

CHI MEI CORPORATION

## Message:

POLYLAC® PA-758 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.
Characteristics include:
Flame Rated
RoHS Compliant

| General Information | | | |
|---|---|---|---|
| UL YellowCard | E56070-245728 | | |
| RoHS Compliance | RoHS Compliant | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | | | |
| -- | 1.08 | g/cm³ | ASTM D792 |
| 23°C | 1.08 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 200°C/5.0 kg | 3.0 | g/10 min | |
| 220°C/10.0 kg | 34 | g/10 min | |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 kg) | 34.0 | cm³/10min | ISO 1133 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 107 | | ASTM D785 |
| Ball Indentation Hardness (H 358/30) | 90.0 | MPa | ISO 2039-1 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress | | | |
| Yield | 42.0 | MPa | ISO 527-2/50 |
| Break | 33.0 | MPa | ISO 527-2/50 |
| 3.00 mm [1] | 39.7 | MPa | ASTM D638 |
| Tensile Elongation | | | |
| Break, 3.00 mm [2] | 40 | % | ASTM D638 |
| Break | 50 | % | ISO 527-2/50 |
| Flexural Modulus | | | |
| 6.00 mm [3] | 1860 | MPa | ASTM D790 |
| -- [4] | 1500 | MPa | ISO 178 |
| Flexural Strength | | | |
| 6.00 mm [5] | 53.9 | MPa | ASTM D790 |
| -- [6] | 56.0 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength | | | |

| | | | |
|---|---|---|---|
| -- | 12 | kJ/m² | ISO 179 |
| -- | 11 | kJ/m² | ISO 179/2C |
| Charpy Unnotched Impact Strength | 60 | kJ/m² | ISO 179/2U |
| Notched Izod Impact | | | |
| 23°C, 3.00 mm | 150 | J/m | ASTM D256 |
| 23°C, 6.00 mm | 160 | J/m | ASTM D256 |
| -- | 12 | kJ/m² | ISO 180/1A |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | |
| 1.8 MPa, Unannealed | 88.0 | °C | ASTM D648 |
| 1.8 MPa, Unannealed | 85.0 | °C | ISO 75-2/A |
| 1.8 MPa, Annealed | 99.0 | °C | ASTM D648 |
| 1.8 MPa, Annealed | 96.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | | | |
| -- | 105 | °C | ASTM D1525 [7] |
| -- | 104 | °C | ISO 306/A50 |
| -- | 106 | °C | ISO 306/A120 |
| -- | 98.0 | °C | ISO 306/B50 |
| -- | 101 | °C | ISO 306/B120 |
| **Flammability** | **Nominal Value** | | **Test Method** |
| Flame Rating (1.60 mm) | HB | | UL 94 |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 85.0 | °C | |
| Drying Time | 3.0 to 5.0 | hr | |
| Rear Temperature | 200 to 220 | °C | |
| Middle Temperature | 220 to 250 | °C | |
| Front Temperature | 220 to 250 | °C | |
| Processing (Melt) Temp | 230 to 240 | °C | |
| Mold Temperature | 50.0 to 70.0 | °C | |
| Injection Pressure | 4.90 to 7.85 | MPa | |
| Holding Pressure | 1.96 to 4.90 | MPa | |
| Back Pressure | 0.490 to 0.981 | MPa | |
| **NOTE** | | | |
| 1. | 6.0 mm/min | | |
| 2. | 6.0 mm/min | | |
| 3. | 2.8 mm/min | | |
| 4. | 2.0 mm/min | | |
| 5. | 2.8 mm/min | | |
| 6. | 2.0 mm/min | | |
| 7. | Rate A (50°C/h) | | |

infringement occurs, please contact us immediately.

Recommended distributors for this material

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