

POLYLAC PA-757 AB

ABS

CHIMEI Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 17 | cm ³ /10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Molding shrinkage, parallel | 0.6 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Yield stress | 45 | MPa | ISO 527 |
| Strain at break | 34 | % | ISO 527 |
| Flexural modulus, 23°C | 2200 | MPa | ISO 178 |
| Flexural strength | 76 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 17 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 8 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 17 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 8 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|-----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 83 | °C | ISO 75-1/-2 |
| Vicat softening temperature, A | 104 | °C | ISO 306 |
| Vicat softening temperature, B | 100 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 86 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1050 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 80 - 85 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Mold temperature | 30 - 70 | °C | - |
| Feed temperature | 180 - 220 | °C | - |
| Zone 1 | 190 - 230 | °C | - |
| Nozzle temperature | 190 - 230 | °C | - |

Characteristics**Processing**

Injection Molding

Features

Biocide

Applications

Building Construction, Medical

Regional Availability

Asia Pacific