

POLYLAC PA-763

ABS

CHIMEI Corporation

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|--------------|------------------------|----------------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 25 | cm ³ /10min | ISO 1133 |
| Temperature | 220 | °C | - |
| Load | 10 | kg | - |
| Molding shrinkage, parallel | 0.5 | % | ISO 294-4, 2577 |
| ASTM Data | | | |
| Melt Flow Index, MFI | 2.8 | g/10min | ASTM D 1238 |
| Temperature | 200 | °C | - |
| Load | 5 | kg | - |
| Mechanical properties | | | |
| ISO Data | | | |
| Yield stress | 38 | MPa | ISO 527 |
| Stress at break | 29 | MPa | ISO 527 |
| Flexural modulus, 23°C | 2000 | MPa | ISO 178 |
| Flexural strength | 58 | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | 23 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 12 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, +23°C | 22 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 11 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |
| ASTM Data | | | |
| Tensile Strength at Yield | 38.6 | MPa | ASTM D 638 |
| Flexural Modulus | 2413 | MPa | ASTM D 790 |
| Flexural Strength | 60.7 | MPa | ASTM D 790 |
| Rockwell Hardness | R 98 | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | 235 | J/m | ASTM D 256 |
| Izod Impact notched, 1/4 in | 198 | J/m | ASTM D 256 |
| Thermal properties | | | |
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 86 | °C | ISO 75-1/-2 |
| Vicat softening temperature, A | 103 | °C | ISO 306 |
| Vicat softening temperature, B | 96 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 85 | E-6/K | ISO 11359-1/-2 |
| Burning behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | - |
| Yellow Card available | yes | - | - |
| Burning behav. 5V at thickness h | 5VA | class | IEC 60695-11-20 |
| Thickness tested | 2.5 | mm | - |
| Yellow Card available | yes | - | - |
| ASTM Data | | | |
| UL 94 Flame rating | V-0 | - | UL 94 |
| Thickness tested | 1.5 | mm | - |
| DTUL @ 264 psi | 85 | °C | ASTM D 648 |
| Vicat Temperature | 104 | °C | ASTM D 1525 |
| Electrical properties | | | |
| ASTM Data | | | |
| Arc Resistance | 30 | s | ASTM D 495 |
| Other properties | | | |
| Density | 1190 | kg/m ³ | ISO 1183 |
| Density | 1190 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 80 - 85 | °C | - |
| Pre-drying - Time | 2 - 4 | h | - |
| Mold temperature | 40 - 70 | °C | - |
| Feed temperature | 180 - 210 | °C | - |
| Zone 1 | 190 - 220 | °C | - |
| Nozzle temperature | 190 - 220 | °C | - |
| Back pressure | 0.5 - 1 | MPa | - |

Characteristics

Processing

Injection Molding

Delivery form

Pellets

Additives

Flame retarding agent

Special Characteristics

Flame retardant, High impact or impact modified, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Applications

IT / Business Machine, Electrical and Electronical

Regional Availability

Asia Pacific