

Makroblend® AR207 LG

(PC+PET)

Covestro Deutschland AG

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------------------------|-----------------|
| ISO Data | | | |
| Melt volume-flow rate, MVR | 38 | cm ³ /10min | ISO 1133 |
| Temperature | 260 | °C | - |
| Load | 5 | kg | - |
| Molding shrinkage, parallel | 0.8 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.8 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 2200 | MPa | ISO 527 |
| Yield stress | 54 | MPa | ISO 527 |
| Yield strain | 4.8 | % | ISO 527 |
| Nominal strain at break | >50 | % | ISO 527 |
| Stress at break | 48 | MPa | ISO 527 |
| Flexural modulus, 23°C | 2200 | MPa | ISO 178 |
| Flexural strength | 80 | MPa | ISO 178 |
| Charpy impact strength, +23°C | N | kJ/m ² | ISO 179/1eU |
| Charpy impact strength, -30°C | N | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 45 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength, -30°C | 20 | kJ/m ² | ISO 179/1eA |
| Izod impact strength, +23°C | N | kJ/m ² | ISO 180/1U |
| Izod notched impact strength, +23°C | 45 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength | 20 | kJ/m ² | ISO 180/1A |
| Temperature | -30 | °C | - |
| Puncture - maximum force, +23°C | 3900 | N | ISO 6603-2 |
| Puncture - maximum force, -30°C | 5000 | N | ISO 6603-2 |
| Puncture energy, +23°C | 42 | J | ISO 6603-2 |
| Puncture energy, -30°C | 48 | J | ISO 6603-2 |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 98 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 126 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 138 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 81 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 80 | E-6/K | ISO 11359-1/-2 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1210 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-------|------|---------------|
| Pre-drying - Temperature | 110 | °C | - |
| Pre-drying - Time | 4 - 6 | h | - |
| Melt temperature | 270 | °C | - |
| Mold temperature | 70 | °C | - |
| Injection speed | 200 | mm/s | - |

Characteristics**Processing**

Injection Molding

Additives

Release agent

Applications

Automotive

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather