

Product Texts

LNP COLORCOMP D10008ER compound is based on Polycarbonate (PC) resin. Added features of this grade include: Flame Retardant, Mold Release, Easy Molding.

UL Yellow Card Link [E121562-103952984](https://www.ul.com/yellowcard/E121562-103952984)

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|---------|---------------|
| ASTM Data | | | |
| Melt Flow Index, MFI | 10.5 | g/10min | ASTM D 1238 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |

| Mechanical properties | Value | Unit | Test Standard |
|-------------------------------|-------|----------------|---------------|
| ASTM Data | | | |
| Tensile Strength at Yield | 62 | MPa | ASTM D 638 |
| Tensile Strength at Break | 68 | MPa | ASTM D 638 |
| Elongation at Yield | 7 | % | ASTM D 638 |
| Elongation at Break | 130 | % | ASTM D 638 |
| Flexural Modulus | 2340 | MPa | ASTM D 790 |
| Rockwell Hardness | R 118 | - | ASTM D 785 |
| Taber Abrasion Resistance | 10 | mg/1000 cycles | ASTM D 1044 |
| Izod Impact notched, 1/8 in | 801 | J/m | ASTM D 256 |
| Izod Impact unnotched, 1/8 in | 3200 | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|-----------------------------------|--------|----------|-----------------|
| ISO Data | | | |
| Burning behav. at thickness h | V-2 | class | IEC 60695-11-10 |
| Thickness tested | 0.4 | mm | - |
| ASTM Data | | | |
| Vicat Temperature | 154 | °C | ASTM D 1525 |
| Thermal Conductivity, solid state | 0.0389 | W/(m K) | ASTM C 177 |
| Specific Heat | 1250 | J/(kg K) | ASTM C 351 |

| Electrical properties | Value | Unit | Test Standard |
|----------------------------|--------|--------|---------------|
| ASTM Data | | | |
| Dissipation Factor, 60 Hz | 0.0009 | - | ASTM D 150 |
| Dissipation Factor, 1 MHz | 0.01 | - | ASTM D 150 |
| Dielectric Constant, 60 Hz | 3.17 | - | ASTM D 150 |
| Dielectric Constant, 1 MHz | 2.96 | - | ASTM D 150 |
| Volume Resistivity | >1E15 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1200 | kg/m ³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 3 - 4 | h | - |
| Processing humidity | ≤0.02 | % | - |
| Melt temperature | 295 - 315 | °C | - |
| Mold temperature | 70 - 95 | °C | - |
| Zone 1 | 270 - 295 | °C | - |
| Zone 2 | 280 - 305 | °C | - |
| Zone 3 | 295 - 315 | °C | - |
| Screw speed | 40 - 70 | rpm | - |
| Back pressure | 0.3 - 0.7 | MPa | - |

Characteristics

Processing

Injection Molding

Applications

Automotive

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Flame retardant