

LONGLITE® PMC T308J

Chang Chun Plastics Co., Ltd. (CCP Group) - Phenolic

General Information
Product Description

PMC-T308J Black Phenolic is a two-stage, general purpose molding material offering excellent mold process-ability and optimized Cure cycles. Typical applications include cookware handles and knobs, Houseware appliance parts, etc.

General

| | | | |
|-------------------|----------------------|------------------------|--------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific | • Europe | • North America |
| Features | • Fast Cure | • General Purpose | • Good Moldability |
| Uses | • Household Goods | • Normal Oven Cookware | |
| UL File Number | • E59481 | | |
| Appearance | • Black | | |
| Forms | • Granules | | |
| Processing Method | • Injection Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|----------------------|-------------------|--------------------|
| Density / Specific Gravity | 1.45 | | ASTM D792 |
| Density | 1.45 | g/cm ³ | JIS K7112 |
| Molding Shrinkage | | | |
| -- | 1.3 | % | ASTM D955 |
| -- | 1.3 | % | JIS K6915 |
| Water Absorption (24 hr) | 0.40 | % | ASTM D570 |
| Water Absorption (24 hr, 73°F) | 0.40 | % | JIS K6911 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | 8120 | psi | ASTM D638 |
| Tensile Stress | 8120 | psi | JIS K6911 |
| Flexural Strength | 13800 | psi | ASTM D790 |
| Flexural Stress | 13800 | psi | JIS K7203 |
| Compressive Strength | 29000 | psi | ASTM D695 |
| Compressive Stress | 29000 | psi | JIS K6911 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Impact Strength | | | |
| -- | 18 | lbf/in | ASTM D256 |
| -- | 18 | lbf/in | JIS K7111 |
| Izod Impact | | | |
| -- | 16 | lbf/in | ASTM D256 |
| -- | 16 | lbf/in | JIS K6911 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 320 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed) | 320 | °F | JIS K7207 |
| RTI Elec | 302 | °F | UL 746B |
| RTI Imp | 302 | °F | UL 746B |
| RTI Str | 302 | °F | UL 746B |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+11 | ohms·cm | ASTM D257 |
| Volume Resistivity | 1.0E+11 | ohms·cm | JIS K6911 |
| Dielectric Strength | | | |
| -- | 230 | V/mil | JIS K6915 |



| | | |
|----------------------------------|----------------------|-------------|
| -- | 230 V/mil | ASTM D149 |
| Arc Resistance | PLC 6 | ASTM D495 |
| Comparative Tracking Index (CTI) | PLC 3 | UL 746A |
| Insulation Resistance | | |
| -- ² | 1.0E+8 ohms | ASTM D257 |
| -- ² | 1.0E+8 ohms | JIS K6915 |
| -- ³ | 1.0E+10 ohms | ASTM D257 |
| -- ³ | 1.0E+10 ohms | JIS K6915 |
| Flammability | Nominal Value | Unit |
| Flame Rating (0.12 in) | V-0 | UL 94 |
| Additional Information | Nominal Value | Unit |
| Shelf Life | 12 | month |

Notes

¹ Typical properties: these are not to be construed as specifications.

² (B)

³ (N)

