



GF 8202 L24

Description GF 8202 L24 is a fiberglass reinforced modified phenolic novolac molding compound, with 24 mm chop length. This compound features superior strength properties.

Available colors Black

Available molding grades Compression, Transfer

Form 24 mm Chopped strand

PHENOLIC

| Properties | | International Units | | English Units | | Method | |
|----------------------|---|---------------------|-------------------|-------------------|-----------------|---------------|----------------------|
| Physical | Specific Gravity | 1.80 | | 1.80 | | ASTM D792 | |
| | Apparent (Powder) density | 0.3 | g/cm ³ | 2.5 | lb/gal | ASTM D1895 | |
| | Molding shrinkage | < 0.1 | % | < 0.001 | in/in | ASTM D955 | |
| | Post shrinkage | < 0.1 | % | < 0.001 | in/in | ASTM D955 | |
| | Water absorption | | | | | | |
| | 24 hour | 0.05 | % | 0.05 | % | ASTM D570 | |
| | 48 hour | 0.2 | % | 0.2 | % | ASTM D570 | |
| Thermal | Temperature of deflection under load | | | | | | |
| | | As Molded | - | °C at 1.8 MPa | - | °F at 264 psi | ASTM D648A |
| | | Post Baked | > 282 | °C at 1.8 MPa | > 540 | °F at 264 psi | ASTM D648A |
| | Thermal Conductivity | | - | W/mK | - | W/mK | ASTM C518 |
| | UL Temperature Index | | - | °C | - | °F | UL 746B |
| | UL-flammability | | - | | - | | UL 94 |
| | 3.2 mm | - | | - | | UL 94 | |
| | 1,6 mm | - | | - | | UL 94 | |
| Mechanical | Coefficient of linear thermal expansion | | | | | | |
| | | parallel | - | 10 E-6/°C | - | 10 E-6/°F | ASTM E831 |
| | | perpendicular | - | 10 E-6/°C | - | 10 E-6/°F | ASTM E831 |
| | Flexural strength | | 325 | MPa | 47,000 | psi | ASTM D790 |
| | Flexural modulus | | 24 | GPa | 3.5 | Mpsi | ASTM D790 |
| | Tensile strength | | 124 | MPa | 18,000 | psi | ASTM D638 |
| | Izod impact strength, notched | | 1350 | J/m | 25 | ft lb/in | ASTM D256A |
| Compressive strength | | 350 | MPa | 51,800 | Psi | ASTM D695 | |
| Rockwell Hardness | | | | | | | |
| | | M Scale | 120 | | 120 | | ASTM D785 |
| | E Scale | 105 | | 105 | | ASTM D785 | |
| Electrical | Dielectric Constant, 1 MHz, wet | | - | | - | ASTM D150 | |
| | Dissipation Factor, 1 MHz, wet | | - | | - | ASTM D150 | |
| | Arc Resistance | | - | Seconds | - | Seconds | ASTM D495 |
| | Dielectric strength, 60 Hz, dry | ST | 12.0 | kV/mm | 305 | V/mil | ASTM D149 |
| | | SS | 10.0 | kV/mm | 254 | V/mil | ASTM D149 |
| | Tracking resistance | | - | V | - | V | ASTM D3638 (IEC 112) |

Properties measured on compression molded ASTM specimens. Values are typical, not statistical minimums.

Contact your Sumitomo Bakelite representative for specifications and post baking recommendations.

ST = short time. SS = step-by-step. Wet = immersed in H₂O for 48 hrs. at 50 °C prior to testing.

Certification to ASTM D-5948 requires batch testing. All testing in accordance with ASTM D-5948. ASTM D-5948 supersedes MIL-M-14.

RoHS: GF8202 L24 is in compliance with RoHS2 (2011/65/EU, Restriction of Hazardous Substances).

PFOS: GF8202 L24 does not contain perfluorooctansulfonate (PFOS) according to European Directive 2006/122/EC.

REACH/SVHC : GF8202 L24 does not contain any Substances of Very High Concern (SVHC) as listed on the candidate list published by ECHA..

Revision Date: 7/8/2014. Shelf life 1 year when stored at 70 °F maximum.

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