



June, 2024

Z-215-G1

■ Product Summary: Z-215-G1 is a 15% glass fiber reinforced super tough PPS compound with ultra-high viscosity and expansibility for blow molding.

■ Color: Black

Engineering Properties

| Properties | Test Method | Unit | Typical value |
|---|---------------|-----------------------|-----------------------|
| General Information | | | GF15% Blow molding |
| Physical | | | |
| Density | ISO 1183-1 | g/cm³ | 1.39 |
| Water absorption, 23°C/24Hrs. | ISO 62 | % | 0.03 |
| Mold shrinkage ^a | ISO 294-4 | % | 0.8/0.9 |
| Mechanical | | | |
| Tensile strength | ISO 527-1,2 | MPa | 100 |
| Tensile modulus | ISO 527-1,2 | GPa | 6.0 |
| Tensile strain at break | ISO 527-1,2 | % | 3.0 |
| Flexural strength | ISO 178 | MPa | 170 |
| Flexural modulus | ISO 178 | GPa | 5.5 |
| Flexural strain at break | ISO 178 | % | 4.5 |
| Charpy impact strength, | | | |
| notched | ISO 179/1eA | kJ/m ² | 17 |
| unnotched | ISO 179/1eU | kJ/m² | 60 |
| Thermal | | | |
| Heat deflection temperature, 1.80MPa | ISO 75-1,2 | °C | 165 |
| Co-eff. of linear thermal expansion a, -50~50 °C | ISO 11359-2 | x 10 ⁻⁵ /K | 2.5/7.5 |
| Co-eff. of linear thermal expansion ^a , 100~200 °C | ISO 11359-2 | x 10 ⁻⁵ /K | 2.0/15.0 |
| Flammability ^c /thickness (mm) | UL-94 | - | - |
| Electrical | | | |
| Dielectric strength, t=1.0mm | IEC 60243-1 | kV/mm | 28 |
| Dielectric constant, 1MHz | IEC 60243-2-1 | - | 4 |
| Dissipation factor, 1MHz | IEC 60243-2-1 | - | 0.007 |
| Comparative Tracking Index (CTI) | IEC 60112 | V | 200 |
| Volume resistivity | IEC 60243-3-1 | Ω·cm | 10 ¹⁶ |
| Molding Condition | | | |
| Cylinder temperature | - | °C | 290-320 |
| Mold temperature | - | °C | 130-150 |
| · | | | |

a: Flow direction/Transverse direction

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b: UL file No. E53829