

DURAFIDE® 6150T73

Polyplastics - Polyphenylene Sulfide

General Information

Product Description

Special

High Impact, Low Gas

General

| | |
|-------------------------------|---|
| Filler / Reinforcement | • Glass Fiber\Mineral, 50% Filler by Weight |
| Features | • High Impact Resistance • Low Emissivity |
| UL File Number | • E109088 |
| Forms | • Pellets |
| Part Marking Code (ISO 11469) | • >PPS-I-(GF+MD)50< |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-----------------|
| Density | 1.71 | g/cm ³ | ISO 1183 |
| Water Absorption (24 hr, 73°F, 0.0394 in) | 0.050 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | 21800 | psi | ISO 527-2 |
| Tensile Strain (Break) | 1.8 | % | ISO 527-2 |
| Flexural Modulus | 1.77E+6 | psi | ISO 178 |
| Flexural Stress | 31900 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 5.0 | ft-lb/in ² | ISO 179/1eA |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load 264 psi, Unannealed | 518 | °F | ISO 75-2/A |
| CLTE - Flow | 1.1E-5 | in/in/°F | Internal Method |
| CLTE - Transverse | 2.2E-5 | in/in/°F | Internal Method |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 6.0E+15 | ohms·cm | IEC 60093 |
| Electric Strength (0.118 in) | 430 | V/mil | IEC 60243-1 |
| Relative Permittivity | | | IEC 60250 |
| 1 kHz | 4.50 | | |
| 1 MHz | 4.40 | | |
| Dissipation Factor | | | IEC 60250 |
| 1 kHz | 2.0E-3 | | |
| 1 MHz | 6.0E-3 | | |
| Arc Resistance | 130 | sec | ASTM D495 |
| Comparative Tracking Index | 150 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | V-0 | | UL 94 |
| Fill Analysis | Nominal Value | Unit | Test Method |
| Melt Viscosity (590°F, 1000 sec ⁻¹) | 230000 | mPa·s | ISO 11443 |
| Additional Information | Nominal Value | Unit | |
| Color Number | HD9050 | | |