

DURAFIDE® 6465A6

Polyplastics - Polyphenylene Sulfide

General Information

Product Description

GF and Mineral Reinforced

Low Warpage, Higher Gloss

General

| | |
|-------------------------------|---|
| Material Status | • Commercial: Active |
| Availability | • Africa & Middle East • Europe • North America • Asia Pacific • Latin America |
| Filler / Reinforcement | • Glass Bead\Glass Fiber, 65% Filler by Weight |
| Features | • High Gloss • Low Warpage |
| UL File Number | • E109088 |
| Forms | • Pellets |
| Part Marking Code (ISO 11469) | • >PPS-(GF+GB)65< |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-----------------------|-----------------|
| Density | 1.95 | g/cm ³ | ISO 1183 |
| Water Absorption (24 hr, 73°F, 0.0394 in) | 0.030 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | 18900 | psi | ISO 527-2 |
| Tensile Strain (Break) | 0.90 | % | ISO 527-2 |
| Flexural Modulus | 3.12E+6 | psi | ISO 178 |
| Flexural Stress | 31200 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 2.9 | ft·lb/in ² | ISO 179/1eA |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 105 | | ISO 2039-2 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 518 | °F | ISO 75-2/A |
| CLTE - Flow | 5.6E-6 | in/in/°F | Internal Method |
| CLTE - Transverse | 1.7E-5 | in/in/°F | Internal Method |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 2.0E+15 | ohms·cm | IEC 60093 |
| Electric Strength (0.118 in) | 380 | V/mil | IEC 60243-1 |
| Relative Permittivity | | | IEC 60250 |
| 1 kHz | 4.80 | | |
| 1 MHz | 4.80 | | |
| Dissipation Factor | | | IEC 60250 |
| 1 kHz | 2.0E-3 | | |
| 1 MHz | 2.0E-3 | | |
| Arc Resistance | 170 | sec | ASTM D495 |
| Comparative Tracking Index | 175 | 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) | 320000 | mPa·s | ISO 11443 |
| Additional Information | Nominal Value | Unit | Test Method |
| Color Number | HD9050 | | |

