

DURAFIDE® 1140A7

Polyplastics - Polyphenylene Sulfide

General Information

Product Description

GF Reinforced

Ultrahigh Flow, Low Flash

General

| | |
|-------------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 40% Filler by Weight |
| Features | • High Flow • Minimal Flash |
| UL File Number | • E109088 |
| Forms | • Pellets |
| Part Marking Code (ISO 11469) | • >PPS-GF40< |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-----------------------|-----------------|
| Density | 1.66 | g/cm ³ | ISO 1183 |
| Water Absorption (24 hr, 73°F, 0.0394 in) | 0.040 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | 26100 | psi | ISO 527-2 |
| Tensile Strain (Break) | 1.4 | % | ISO 527-2 |
| Flexural Modulus | 2.18E+6 | psi | ISO 178 |
| Flexural Stress | 39200 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 5.0 | 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 | 527 | °F | ISO 75-2/A |
| CLTE - Flow | 5.6E-6 | in/in/°F | Internal Method |
| CLTE - Transverse | 2.2E-5 | in/in/°F | Internal Method |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 4.0E+15 | ohms·cm | IEC 60093 |
| Electric Strength (0.118 in) | 380 | V/mil | IEC 60243-1 |
| Relative Permittivity | | | IEC 60250 |
| 1 kHz | 4.30 | | |
| 1 MHz | 4.30 | | |
| Dissipation Factor | | | IEC 60250 |
| 1 kHz | 1.0E-3 | | |
| 1 MHz | 2.0E-3 | | |
| Arc Resistance | 124 | sec | ASTM D495 |
| Comparative Tracking Index | 125 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | V-0 | | UL 94 |

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| Fill Analysis | Nominal Value | Unit | Test Method |
|---|----------------------|-------------|--------------------|
| Melt Viscosity (590°F, 1000 sec ⁻¹) | 160000 | mPa·s | ISO 11443 |
| Additional Information | Nominal Value | Unit | |
| Color Number | HF2000/HD9050 | | |