

# HONES® PPS HS-G40-5

Polyphenylene Sulfide

Guangdong Shunde Hones Polymer Material Co., Ltd.

Message:

High toughness

| General Information                                     |                |                   |                 |
|---------------------------------------------------------|----------------|-------------------|-----------------|
| Filler / Reinforcement                                  | Glass Fiber    |                   |                 |
| Features                                                | Good Toughness |                   |                 |
| UL File Number                                          | E254390        |                   |                 |
| Physical                                                | Nominal Value  | Unit              | Test Method     |
| Specific Gravity                                        | 1.65           | g/cm <sup>3</sup> | Internal Method |
| Molding Shrinkage                                       |                |                   | Internal Method |
| Flow : 2.00 mm                                          | 0.30           | %                 |                 |
| Across Flow : 2.00 mm                                   | 0.60           | %                 |                 |
| Water Absorption (23°C, 24 hr)                          | 0.010          | %                 | ISO 62          |
| Mechanical                                              | Nominal Value  | Unit              | Test Method     |
| Tensile Strength                                        | 105            | MPa               | Internal Method |
| Tensile Elongation (Break)                              | 1.5            | %                 | Internal Method |
| Flexural Modulus                                        | 8000           | MPa               | Internal Method |
| Flexural Strength                                       | 180            | MPa               | Internal Method |
| Thermal                                                 | Nominal Value  | Unit              | Test Method     |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 235            | °C                | Internal Method |
| CLTE                                                    |                |                   | ISO 11359-2     |
| Flow                                                    | 2.0E-5         | cm/cm/°C          |                 |
| Transverse                                              | 4.0E-5         | cm/cm/°C          |                 |
| Electrical                                              | Nominal Value  | Unit              | Test Method     |
| Surface Resistivity                                     | 2.0E+17        | ohms              | IEC 60093       |
| Volume Resistivity                                      | 3.0E+16        | ohms·cm           | IEC 60093       |
| Electric Strength (3.00 mm)                             | 16             | kV/mm             | IEC 60243-1     |
| Comparative Tracking Index                              | 125            | V                 | IEC 60112       |
| Flammability                                            | Nominal Value  | Unit              | Test Method     |
| Flame Rating                                            | V-0            |                   | UL 94           |
| Fill Analysis                                           | Nominal Value  | Unit              | Test Method     |
| Melt Viscosity (310°C)                                  | 350            | Pa·s              | ISO 11443       |

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