

# KOPPS® S13A65BL

Polyphenylene Sulfide

Kolon Plastics, Inc.

Message:

KOPPS®S13A65BL is a polyphenylene sulfide (PPS) product, which contains a 65% filler. It is available in North America, Latin America, Europe or Asia Pacific.

- Features include:
- flame retardant/rated flame
  - ROHS certification
  - high liquidity
  - Good dimensional stability
  - Heat resistance

| General Information    |                                |                   |                     |
|------------------------|--------------------------------|-------------------|---------------------|
| Filler / Reinforcement | Packing, 65% packing by weight |                   |                     |
| Features               | Good dimensional stability     |                   |                     |
|                        | High liquidity                 |                   |                     |
|                        | Heat resistance, high          |                   |                     |
|                        | Self-extinguishing             |                   |                     |
| RoHS Compliance        | RoHS compliance                |                   |                     |
| Physical               | Nominal Value                  | Unit              | Test Method         |
| Specific Gravity       | 1.95                           | g/cm <sup>3</sup> | ASTM D792, ISO 1183 |
| Molding Shrinkage      |                                |                   |                     |
| Flow                   | 0.20                           | %                 | ASTM D955           |
| Transverse flow        | 1.0                            | %                 | ISO 294-4           |
| Flow                   | 0.23                           | %                 | ISO 294-4           |
| Water Absorption       |                                |                   |                     |
| 23°C, 24 hr            | 0.020                          | %                 | ISO 62              |
| Balanced, 23°C, 60% RH | 0.020                          | %                 | ASTM D570           |
| Hardness               | Nominal Value                  | Unit              | Test Method         |
| Rockwell Hardness      |                                |                   |                     |
| Class r                | 122                            |                   | ASTM D785           |
| R scale                | 120                            |                   | ISO 2039-2          |
| Mechanical             | Nominal Value                  | Unit              | Test Method         |
| Tensile Strength       |                                |                   |                     |
| 23°C                   | 108                            | MPa               | ASTM D638           |
| 23°C                   | 130                            | MPa               | ISO 527-2           |
| Tensile Elongation     |                                |                   |                     |
| Fracture, 23°C         | 2.0                            | %                 | ASTM D638           |
| Fracture, 23°C         | 1.0                            | %                 | ISO 527-2           |
| Flexural Modulus       |                                |                   |                     |

|                                       |               |                   |                         |
|---------------------------------------|---------------|-------------------|-------------------------|
| 23°C                                  | 16700         | MPa               | ASTM D790               |
| 23°C                                  | 16500         | MPa               | ISO 178                 |
| Flexural Strength                     |               |                   |                         |
| 23°C                                  | 186           | MPa               | ASTM D790               |
| 23°C                                  | 200           | MPa               | ISO 178                 |
| Impact                                | Nominal Value | Unit              | Test Method             |
| Charpy Notched Impact Strength (23°C) | 7.0           | kJ/m <sup>2</sup> | ISO 179/1eA             |
| Notched Izod Impact (23°C)            | 59            | J/m               | ASTM D256               |
| Thermal                               | Nominal Value | Unit              | Test Method             |
| Deflection Temperature Under Load     |               |                   |                         |
| 1.8 MPa, unannealed, 6.35mm           | 265           | °C                | ASTM D648               |
| 1.8 MPa, not annealed                 | 265           | °C                | ISO 75-2/A              |
| Melting Temperature                   | 285           | °C                | ISO 11357-3, ASTM D3418 |
| CLTE - Flow                           | 2.0E-4        | cm/cm/°C          | ASTM D696               |
| Electrical                            | Nominal Value | Unit              | Test Method             |
| Volume Resistivity                    | 1.0E+16       | ohms·cm           | IEC 60093               |
| Dielectric Strength                   | 16            | kV/mm             | ASTM D149               |
| Dielectric Constant (1 MHz)           | 5.00          |                   | ASTM D150               |
| Arc Resistance                        | 120           | sec               | ASTM D495               |
| Comparative Tracking Index            | 230           | V                 | IEC 60112               |
| Flammability                          | Nominal Value | Unit              | Test Method             |
| Flame Rating (0.8 mm)                 | V-0           |                   | UL 94                   |
| Injection                             | Nominal Value | Unit              |                         |
| Drying Temperature - Desiccant Dryer  | 120 - 130     | °C                |                         |
| Drying Time - Desiccant Dryer         | 3.0 - 5.0     | hr                |                         |
| Suggested Max Moisture                | < 0.050       | %                 |                         |
| Rear Temperature                      | 230 - 250     | °C                |                         |
| Middle Temperature                    | 290 - 310     | °C                |                         |
| Front Temperature                     | 290 - 310     | °C                |                         |
| Nozzle Temperature                    | 300 - 320     | °C                |                         |
| Mold Temperature                      | 120 - 140     | °C                |                         |

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