

## Technical Data Sheet

### *Polyflam* HP1363V2CSLB14370ORE



Polypropylene, Homopolymer

#### Product Description

*Polyflam* HP1363V2CSLB14370ORE is a Polypropylene Homopolymer Copper filled material.

|                      |                                  |
|----------------------|----------------------------------|
| Forms                | Pellets                          |
| Additive             | Flame Retardant; Heat Stabilizer |
| Filler/Reinforcement | Copper                           |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 13            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 0.933         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield                              | 32.8          | MPa               | ASTM D638   |
| Flexural Modulus                                       | 1450          | MPa               | ASTM D790   |
| Tensile Modulus                                        | 1200          | MPa               | ASTM D638   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact                                    | 43            | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 51.7          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 87.8          | °C                | ASTM D648   |
| RTI Elec                                               | 110           | °C                | UL 746B     |
| RTI Imp                                                | 110           | °C                | UL 746B     |
| RTI Str                                                | 110           | °C                | UL 746B     |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating, (1.6 mm)                                 | V-2           |                   | UL 94       |
| UL File Number                                         | E51193        |                   |             |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 4.0    | hr    |
| Drying Temperature     | 82            | °C    |
| Nozzle Temperature     | 177 to 218    | °C    |
| Screw Speed            | 20 to 60      | rpm   |
| Processing (Melt) Temp | 177 to 218    | °C    |
| Front Temperature      | 177 to 218    | °C    |
| Middle Temperature     | 177 to 204    | °C    |
| Rear Temperature       | 177 to 204    | °C    |
| Injection Rate         | Slow-Moderate |       |
| Back Pressure          | <0.689        | MPa   |
| Mold Temperature       | 32 to 66      | °C    |
| Cushion                | 6.35 to 12.7  | mm    |