



# Component - Plastics

File Number: E140728

Solvay Specialty Polymers USA L L C  
4500 MCGINNIS FERRY RD, ALPHARETTA GA 30005-2203



## KETASPIRE: KT-820, KT-820P

Polyetheretherketone (PEEK), pellets or powder

| Flammability                          | Value  | Test Method          |
|---------------------------------------|--------|----------------------|
| Flame Rating                          |        | UL 94                |
| 0.75 mm, NC, BK                       | V-1    |                      |
| 0.9 mm, NC, BK                        | V-1    |                      |
| 1.5 mm, NC, BK                        | V-0    |                      |
| 3.0 mm, NC, BK                        | V-0    |                      |
| Flammability Classification           |        | IEC 60695-11-10, -20 |
| 1.5 mm, NC, BK                        | V-0    |                      |
| 3.0 mm, NC, BK                        | V-0    |                      |
| 0.75 mm, NC, BK                       | V-1    |                      |
| 0.9 mm, NC, BK                        | V-1    |                      |
| Glow Wire Flammability Index          |        | IEC 60695-2-12       |
| 0.9 mm                                | 960 °C |                      |
| 1.5 mm                                | 960 °C |                      |
| 3.0 mm                                | 960 °C |                      |
| Glow Wire Ignition Temperature        |        | IEC 60695-2-13       |
| 0.9 mm                                | 850 °C |                      |
| 1.5 mm                                | 825 °C |                      |
| 3.0 mm                                | 850 °C |                      |
| Electrical                            | Value  | Test Method          |
| Hot-wire Ignition (HWI)               |        | UL 746               |
| 0.75 mm                               | PLC 1  |                      |
| 0.9 mm                                | PLC 1  |                      |
| 1.5 mm                                | PLC 1  |                      |
| 3.0 mm                                | PLC 1  |                      |
| High Amp Arc Ignition (HAI)           |        | UL 746               |
| 0.75 mm                               | PLC 1  |                      |
| 0.9 mm                                | PLC 1  |                      |
| 1.5 mm                                | PLC 1  |                      |
| 3.0 mm                                | PLC 1  |                      |
| Comparative Tracking Index (CTI)      | PLC 4  | UL 746               |
| High Voltage Arc Tracking Rate (HVTR) | PLC 3  | UL 746               |
| Arc Resistance                        | PLC 6  | ASTM D495            |
| Thermal                               | Value  | Test Method          |
| RTI Elec                              |        | UL 746               |
| 0.75 mm                               | 260 °C |                      |
| 0.9 mm                                | 260 °C |                      |
| 1.5 mm                                | 260 °C |                      |
| 3.0 mm                                | 260 °C |                      |

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| Thermal | Value  | Test Method |
|---------|--------|-------------|
| RTI Imp |        | UL 746      |
| 0.75 mm | 180 °C |             |
| 0.9 mm  | 180 °C |             |
| 1.5 mm  | 180 °C |             |
| 3.0 mm  | 180 °C |             |
| RTI Str |        | UL 746      |
| 0.75 mm | 260 °C |             |
| 0.9 mm  | 260 °C |             |
| 1.5 mm  | 260 °C |             |
| 3.0 mm  | 260 °C |             |

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