

## BASF Luranyl® KR 2452/3 Polyphenylene Ether + Styrene-Butadiene Blend

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether + Styrene-Butadiene Blend , Styrene-Butadiene

### Material Notes:

This grade, which contains a halogen-free flame-retardant, is especially resistant to heat deformation. Applications include: functional electrical parts (e.g. switches, transformer housings, deflector-coil formers for TV sets). Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Luranyl-KR-24523-Polyphenylene-Ether-Styrene-Butadiene-Blend.php](http://www.lookpolymers.com/polymer_BASF-Luranyl-KR-24523-Polyphenylene-Ether-Styrene-Butadiene-Blend.php)

| Physical Properties                | Metric  | English   | Comments |
|------------------------------------|---|---|----------|
| Density                            | 1.07 g/cc   | 0.0387 lb/in <sup>3</sup>                           |          |
| Water Absorption                   | 0.40 %  | 0.40 %  |          |
| Moisture Absorption at Equilibrium | 0.15 %  | 0.15 %  |          |
| Linear Mold Shrinkage, Flow        | 0.0060 cm/cm  | 0.0060 in/in  |          |
| High Load Melt Index               | 25 g/10 min<br>@Load 21.6 kg,<br>Temperature 250 °C | 25 g/10 min<br>@Load 47.6 lb,<br>Temperature 482 °F |          |

| Mechanical Properties   | Metric  | English   | Comments |
|-------------------------|---|---|----------|
| Tensile Strength, Yield | 65.0 MPa  | 9430 psi  |          |
| Elongation at Break     | 40 %  | 40 %  |          |
| Elongation at Yield     | 6.0 %   | 6.0 %   |          |
| Tensile Modulus         | 2.60 GPa  | 377 ksi   |          |
| Charpy Impact Unnotched | NB  | NB  |          |
|                         | 3.50 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 16.7 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F |          |
| Charpy Impact, Notched  | 2.00 J/cm <sup>2</sup>                          | 9.52 ft-lb/in <sup>2</sup>                          |          |
|                         | 2.00 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 9.52 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F |          |

| Thermal Properties            | Metric                               | English                                | Comments |
|-------------------------------|--------------------------------------|--|----------|
| CTE, linear, Parallel to Flow | 65.0 µm/m-°C<br>@Temperature 20.0 °C | 36.1 µin/in-°F<br>@Temperature 68.0 °F |          |

| Thermal Properties                          | Metric                    | English                    | Comments |
|---|---------------------------|----------------------------|----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 118 °C                    | 244 °F                     |          |
| Vicat Softening Point                       | 136 °C                    | 277 °F                     |          |
| Flammability, UL94                          | V-1<br>@Thickness 3.17 mm | V-1<br>@Thickness 0.125 in |          |
| Oxygen Index                                | 27 %                      | 27 %                       |          |

| Electrical Properties      | Metric                                  | English                                 | Comments |
|----------------------------|---|---|----------|
| Electrical Resistivity     | $\geq 1.00 \times 10^{15}$ ohm-cm       | $\geq 1.00 \times 10^{15}$ ohm-cm       |          |
| Surface Resistance         | $1.00 \times 10^{14}$ ohm               | $1.00 \times 10^{14}$ ohm               |          |
| Dielectric Constant        | 2.7<br>@Frequency 100 Hz                | 2.7<br>@Frequency 100 Hz                |          |
|                            | 2.7<br>@Frequency $1 \times 10^6$ Hz    | 2.7<br>@Frequency $1 \times 10^6$ Hz    |          |
| Dielectric Strength        | 90.0 kV/mm                              | 2290 kV/in                              |          |
| Dissipation Factor         | 0.0025<br>@Frequency $1 \times 10^6$ Hz | 0.0025<br>@Frequency $1 \times 10^6$ Hz |          |
| Comparative Tracking Index | 300 V                                   | 300 V                                   |          |

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