

## LEONA™ FR650

Asahi Kasei Corporation - Polyamide 66/6 Copolymer

### General Information

| General                       |                                                                                                                                                  |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Material Status               | <ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>                                                                             |
| Availability                  | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>North America</li> </ul>          |
| Features                      | <ul style="list-style-type: none"> <li>Flame Retardant</li> <li>Glow Wire Resistant</li> <li>Halogen Free</li> <li>Ignition Resistant</li> </ul> |
| Part Marking Code (ISO 11469) | <ul style="list-style-type: none"> <li>&gt;PA66/6+PA66-FR(30)&lt;</li> </ul>                                                                     |

### Properties <sup>1</sup>

| Physical                                                | Dry    | Conditioned | Unit                  | Test Method    |
|---------------------------------------------------------|--------|-------------|-----------------------|----------------|
| Density                                                 | 1.26   | --          | g/cm <sup>3</sup>     | ISO 1183       |
| Water Absorption (Saturation, 73°F)                     | --     | 1.4         | %                     |                |
| Mechanical                                              | Dry    | Conditioned | Unit                  | Test Method    |
| Tensile Stress (Yield)                                  | 7250   | 4790        | psi                   | ISO 527-2      |
| Tensile Stress (Break)                                  | 7400   | --          | psi                   | ISO 527-2      |
| Tensile Strain (Break)                                  | 1.0    | 6.0         | %                     | ISO 527-2      |
| Flexural Modulus                                        | 653000 | 319000      | psi                   | ISO 178        |
| Flexural Stress                                         | 12200  | 8700        | psi                   | ISO 178        |
| Impact                                                  | Dry    | Conditioned | Unit                  | Test Method    |
| Charpy Notched Impact Strength                          | 0.48   | 0.48        | ft·lb/in <sup>2</sup> | ISO 179        |
| Thermal                                                 | Dry    | Conditioned | Unit                  | Test Method    |
| Deflection Temperature Under Load (264 psi, Unannealed) | 230    | --          | °F                    | ISO 75-2/A     |
| Electrical                                              | Dry    | Conditioned | Unit                  | Test Method    |
| Comparative Tracking Index                              | 600    | --          | V                     | IEC 60112      |
| Flammability                                            | Dry    | Conditioned | Unit                  | Test Method    |
| Flame Rating (0.030 in)                                 | V-0    | --          |                       | UL 94          |
| Glow Wire Flammability Index (0.12 in)                  | 1760   | --          | °F                    | IEC 60695-2-12 |

### Processing Information

| Injection                         | Dry Unit      |
|-----------------------------------|---------------|
| Drying Temperature - Vacuum Dryer | 176 to 194 °F |
| Drying Time - Vacuum Dryer        | 2.0 to 3.0 hr |
| Processing (Melt) Temp            | 509 to 527 °F |
| Mold Temperature                  | 167 to 185 °F |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

