

# RONFALIN® RHG12

Acrylonitrile Butadiene Styrene + Acrylic (PMMA)  
Engineering Plastics

| General                                   |                           |                        |              |
|-------------------------------------------|---------------------------|------------------------|--------------|
| Features                                  | • High Gloss              |                        |              |
| Uses                                      | • Television Housings     |                        |              |
| RoHS Compliance                           | • RoHS Compliant          |                        |              |
| Physical                                  | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Density                                   | 1.10 g/cm <sup>3</sup>    | 1.10 g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (220°C/10.0 kg) | 12 g/10 min               | 12 g/10 min            | ISO 1133     |
| Molding Shrinkage                         | 0.40 to 0.60 %            | 0.40 to 0.60 %         |              |
| Mechanical                                | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Tensile Stress (Yield)                    | 7250 psi                  | 50.0 MPa               | ISO 527-2/50 |
| Flexural Modulus                          | 392000 psi                | 2700 MPa               | ISO 178      |
| Impact                                    | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Notched Izod Impact Strength              | 3.8 ft·lb/in <sup>2</sup> | 8.0 kJ/m <sup>2</sup>  | ISO 180/1A   |
| Thermal                                   | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Heat Deflection Temperature               |                           |                        |              |
| 66 psi (0.45 MPa), Unannealed             | 203 °F                    | 95.0 °C                | ISO 75-2/B   |
| 264 psi (1.8 MPa), Unannealed             | 203 °F                    | 95.0 °C                | ISO 75-2/A   |
| Vicat Softening Temperature               | 207 °F                    | 97.0 °C                | ISO 306/B50  |
| Flammability                              | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Burning Rate                              |                           |                        |              |
| 0.0787 in (2.00 mm)                       | < 3.9 in/min              | < 100 mm/min           | ISO 3795     |
| 0.0787 in (2.00 mm)                       | < 3.9 in/min              | < 100 mm/min           | FMVSS 302    |
| Flame Rating (0.06 in (1.6 mm))           | HB                        | HB                     | UL 94        |

## Notes

These are typical property values not to be construed as specification limits.

