

# Diakon® MG100

Polymethyl Methacrylate Acrylic

Lucite International Inc.

## Message:

Diakon® MG100 is a polymethyl methacrylate-acrylic material. This product is available in Europe. Diakon® The main characteristics of MG100 are: flame retardant/rated flame.

| General Information                          |               |                   |                |
|----------------------------------------------|---------------|-------------------|----------------|
| Forms                                        | Particle      |                   |                |
| Physical                                     | Nominal Value | Unit              | Test Method    |
| Density                                      | 1.18          | g/cm <sup>3</sup> | ISO 1183       |
| Melt Mass-Flow Rate (MFR)                    | 4.8           | g/10 min          | ISO 1133       |
| Molding Shrinkage                            | 0.40 - 0.70   | %                 | ISO 294-4      |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.30          | %                 | ISO 62         |
| Hardness                                     | Nominal Value | Unit              | Test Method    |
| Rockwell Hardness (M-Scale)                  | 98            |                   | ISO 2039-2     |
| Mechanical                                   | Nominal Value | Unit              | Test Method    |
| Tensile Stress (Yield)                       | 80.0          | MPa               | ISO 527-2      |
| Tensile Strain (Yield)                       | 5.0           | %                 | ISO 527-2      |
| Flexural Modulus                             | 3200          | MPa               | ISO 178        |
| Flexural Stress                              | 110           | MPa               | ISO 178        |
| Impact                                       | Nominal Value | Unit              | Test Method    |
| Charpy Notched Impact Strength               | 2.0           | kJ/m <sup>2</sup> | ISO 179/1eA    |
| Charpy Unnotched Impact Strength             | 18            | kJ/m <sup>2</sup> | ISO 179/1eU    |
| Notched Izod Impact                          | 1.8           | kJ/m <sup>2</sup> | ISO 180/1A     |
| Thermal                                      | Nominal Value | Unit              | Test Method    |
| Heat Deflection Temperature                  |               |                   |                |
| 0.45 MPa, not annealed                       | 102           | °C                | ISO 75-2/B     |
| 1.8 MPa, not annealed                        | 99.0          | °C                | ISO 75-2/A     |
| Vicat Softening Temperature                  |               |                   |                |
| --                                           | 113           | °C                | ISO 306/A      |
| --                                           | 106           | °C                | ISO 306/B      |
| CLTE - Flow                                  | 7.1E-5        | cm/cm/°C          | ASTM E831      |
| Flammability                                 | Nominal Value | Unit              | Test Method    |
| Flame Rating                                 | HB            |                   | UL 94          |
| Glow Wire Ignition Temperature               | 650           | °C                | IEC 60695-2-13 |
| Optical                                      | Nominal Value | Unit              | Test Method    |
| Refractive Index                             | 1.490         |                   | ISO 489        |
| Transmittance                                | 92.0          | %                 | ASTM D1003     |
| Haze                                         | 0.40          | %                 | ASTM D1003     |

#### Additional Information

Weight Average Partical Size, Sieve test: 230 microns.

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