

# Diakon® CMG314V

Polymethyl Methacrylate Acrylic

Lucite International Inc.

## Message:

Diakon® CMG314V is a polymethyl methacrylate-acrylic material. This product is available in Europe and is processed by extrusion or injection molding.

Diakon® The main characteristics of the CMG314V are: flame retardant/rated flame.

Diakon® The typical application fields of CMG314V are: automobile industry

| General Information                          |                   |                   |             |
|----------------------------------------------|-------------------|-------------------|-------------|
| Forms                                        | Particle          |                   |             |
| Processing Method                            | Extrusion         |                   |             |
|                                              | Injection molding |                   |             |
| Physical                                     | Nominal Value     | Unit              | Test Method |
| Density                                      | 1.18              | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)                    | 3.0               | g/10 min          | ISO 1133    |
| 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  |
| Ball Indentation Hardness                    | 185               | MPa               | ISO 2039-1  |
| Mechanical                                   | Nominal Value     | Unit              | Test Method |
| Tensile Stress (Yield)                       | 83.0              | MPa               | ISO 527-2   |
| Tensile Strain (Yield)                       | 5.0               | %                 | ISO 527-2   |
| Flexural Modulus                             | 3200              | MPa               | ISO 178     |
| Flexural Stress                              | 115               | 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             | 20                | kJ/m <sup>2</sup> | ISO 179/1eU |
| Notched Izod Impact                          | 2.0               | kJ/m <sup>2</sup> | ISO 180/1A  |
| Multi-Axial Instrumented Impact Energy       | 0.400             | J                 | ISO 6603-2  |
| Thermal                                      | Nominal Value     | Unit              | Test Method |
| Heat Deflection Temperature                  |                   |                   |             |
| 0.45 MPa, not annealed                       | 105               | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed                        | 102               | °C                | ISO 75-2/A  |
| Vicat Softening Temperature                  |                   |                   |             |
| --                                           | 117               | °C                | ISO 306/A   |
| --                                           | 108               | °C                | ISO 306/B   |
| CLTE - Flow                                  | 7.1E-5            | cm/cm/°C          | ASTM D696   |
| 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

Mold Shrinkage, H 961/30: .4 to .7%.Craze Resistance (isopropanol), Ineos cantilever test: 600 secs to break.

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

