

# Diakon® CLH952

Polymethyl Methacrylate Acrylic

Lucite International Inc.

## Message:

Diakon® CLH952 is a polymethyl methacrylate-acrylic material. This product is available in Europe and is processed by extrusion.

Diakon® The main features of CLH952 are:

flame retardant/rated flame

Heat resistance

Typical application areas include:

sheet

Hose

| General Information                          |                         |                   |             |
|----------------------------------------------|-------------------------|-------------------|-------------|
| UL YellowCard                                | E108947-218751          |                   |             |
| Features                                     | Good liquidity          |                   |             |
|                                              | Heat resistance, medium |                   |             |
| Uses                                         | Pipe fittings           |                   |             |
|                                              | Sheet                   |                   |             |
|                                              | Profile                 |                   |             |
| Forms                                        | Particles               |                   |             |
| Processing Method                            | Extrusion               |                   |             |
| Physical                                     | Nominal Value           | Unit              | Test Method |
| Density                                      | 1.18                    | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)                    | 1.6                     | g/10 min          | ISO 1133    |
| Water Absorption (Equilibrium, 23°C, 50% RH) | 0.30                    | %                 | ISO 62      |
| Hardness                                     | Nominal Value           | Unit              | Test Method |
| Rockwell Hardness                            | 95                      |                   | 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                          | 1.9                     | kJ/m <sup>2</sup> | ISO 180/1A  |
| Instrumented Dart Impact                     |                         |                   |             |
| --                                           | 0.400                   | J                 | ASTM D3763  |

| --                             | 0.600         | J        | ISO 6603-2         |
|--------------------------------|---------------|----------|--------------------|
| Thermal                        | Nominal Value | Unit     | Test Method        |
| Heat Deflection Temperature    |               |          |                    |
| 0.45 MPa, not annealed         | 101           | °C       | ISO 75-2/B         |
| 1.8 MPa, not annealed          | 97.0          | °C       | ISO 75-2/A         |
| Vicat Softening Temperature    |               |          |                    |
| --                             | 110           | °C       | ISO 306/A          |
| --                             | 104           | °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         |          | ASTM D542, 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: 2000 secs to break.

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