

# CALP 9800G-6

General Purpose Polystyrene

Lion Idemitsu Composites Co., Ltd.

## Message:

CALP 9800G-6 is a General Purpose Polystyrene product. It can be processed by injection molding and is available in Asia Pacific. Primary characteristic: flame rated.

| General Information                                      |                   |                |                 |
|----------------------------------------------------------|-------------------|----------------|-----------------|
| UL YellowCard                                            | E220017-266460    | E220017-266463 |                 |
| Processing Method                                        | Injection Molding |                |                 |
| Physical                                                 | Nominal Value     | Unit           | Test Method     |
| Specific Gravity                                         | 1.42              | g/cm³          | ASTM D792       |
| Melt Mass-Flow Rate (MFR)                                | 7.0               | g/10 min       | ASTM D1238      |
| Molding Shrinkage                                        |                   |                | Internal Method |
| Flow : 2.00 mm                                           | 0.40              | %              |                 |
| Across Flow : 2.00 mm                                    | 0.40              | %              |                 |
| Hardness                                                 | Nominal Value     | Unit           | Test Method     |
| Rockwell Hardness (R-Scale)                              | 90                |                | ASTM D785       |
| Mechanical                                               | Nominal Value     | Unit           | Test Method     |
| Tensile Strength                                         | 22.0              | MPa            | ASTM D638       |
| Tensile Elongation (Break)                               | 25                | %              | ASTM D638       |
| Flexural Modulus                                         | 2080              | MPa            | ASTM D790       |
| Flexural Strength                                        | 37.0              | MPa            | ASTM D790       |
| Impact                                                   | Nominal Value     | Unit           | Test Method     |
| Notched Izod Impact (Area) (23°C)                        | 12.0              | kJ/m²          | ASTM D256       |
| Thermal                                                  | Nominal Value     | Unit           | Test Method     |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 86.0              | °C             | ASTM D648       |
| RTI Elec                                                 | 50.0              | °C             | UL 746          |
| RTI Imp                                                  | 50.0              | °C             | UL 746          |
| RTI Str                                                  | 50.0              | °C             | UL 746          |
| Flammability                                             | Nominal Value     |                | Test Method     |
| Flame Rating (1.50 mm)                                   | HB                |                | UL 94           |

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