

# Resirene 2210

High Impact Polystyrene

Resirene, S.A. de C.V.

Message:

Resirene 2210 is a HIPS grade suitable for injection molding processes.

| General Information                                     |                        |                   |             |
|---------------------------------------------------------|------------------------|-------------------|-------------|
| UL YellowCard                                           | E85100-251662          |                   |             |
| Features                                                | Good Processability    |                   |             |
|                                                         | High Flow              |                   |             |
|                                                         | High Impact Resistance |                   |             |
| Uses                                                    | Cups                   |                   |             |
|                                                         | Masterbatch            |                   |             |
|                                                         | Thin-walled Parts      |                   |             |
|                                                         | Toys                   |                   |             |
| Agency Ratings                                          | FDA 21 CFR 177.1640    |                   |             |
| Processing Method                                       | Injection Molding      |                   |             |
| Physical                                                | Nominal Value          | Unit              | Test Method |
| Specific Gravity                                        | 1.05                   | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)                | 16                     | g/10 min          | ASTM D1238  |
| Mechanical                                              | Nominal Value          | Unit              | Test Method |
| Tensile Modulus                                         | 1730                   | MPa               | ASTM D638   |
| Tensile Strength (Yield)                                | 16.0                   | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 43                     | %                 | ASTM D638   |
| Flexural Modulus                                        | 1700                   | MPa               | ASTM D790   |
| Flexural Strength                                       | 26.0                   | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value          | Unit              | Test Method |
| Notched Izod Impact                                     |                        |                   | ASTM D256   |
| 3.18 mm                                                 | 96                     | J/m               |             |
| 12.7 mm                                                 | 85                     | J/m               |             |
| Thermal                                                 | Nominal Value          | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 69.0                   | °C                | ASTM D648   |
| Vicat Softening Temperature                             | 78.0                   | °C                | ASTM D1525  |
| Flammability                                            | Nominal Value          | Test Method       |             |
| Flame Rating (1.52 mm)                                  | HB                     | UL 94             |             |
| Injection                                               | Nominal Value          | Unit              |             |
| Processing (Melt) Temp                                  | 200 to 230             | °C                |             |

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