

## Technical Data Sheet

### *Icorene* POLYETHYLENE LP 390-01 C1 NAT



Polyethylene, High Density Copolymer

#### Product Description

LP 390-01 natural is a narrow molecular weight copolymer, high density polyethylene combining excellent impact strength with good environmental stress crack resistance.

|                          |                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Processing Method</b> | Compounding; Injection Molding                                                                                                                         |
| <b>Attribute</b>         | Copolymer; Food Contact Acceptable; Good Impact Resistance; High ESCR (Environmental Stress Cracking Resistance); Narrow Molecular Weight Distribution |
| <b>Forms</b>             | Pellets                                                                                                                                                |
| <b>Appearance</b>        | Natural Color                                                                                                                                          |

| Typical Properties                                        | Nominal Value | Units             | Test Method |
|-----------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                           |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)                          | 7.0           | g/10 min          | ASTM D1238  |
| Density                                                   | 0.952         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                                         |               |                   |             |
| Tensile Strength at Yield, (51 mm/min)                    | 27.6          | MPa               | ASTM D638   |
| Environmental Stress Crack Resistance, (Condition B, F50) | 5.00          | hr                | ASTM D1693  |
| Flexural Modulus, (Tangent)                               | 1280          | MPa               | ASTM D790   |
| Tensile Elongation at Break, (51 mm/min)                  | 1000          | %                 | ASTM D638   |
| <b>Impact</b>                                             |               |                   |             |
| Gardner Impact, (-40 °C)                                  | 32.5          | J                 | ASTM D3029  |
| Notched Izod Impact                                       | >53           | J/m               | ASTM D256   |
| <b>Hardness</b>                                           |               |                   |             |
| Durometer Hardness, (Shore D)                             | 59            |                   | ASTM D2240  |
| <b>Thermal</b>                                            |               |                   |             |
| Vicat Softening Temperature                               | 128           | °C                | ASTM D1525  |