

## Technical Data Sheet

### *Icorene* N1009-1000 NAT

Ethylene Vinyl Acetate

#### Product Description

*Icorene* N1009 is a premium copolymer of ethylene vinyl acetate specifically designed for the preparation of masterbatch. The powder form can achieve better colour developments or additive dispersion in a masterbatch than the pellet form. The vinyl acetate content is about 20%. This grade can also be used in various applications such as textile coating with a maximum processing temperature of 200°C.

|             |                                                                                     |
|-------------|-------------------------------------------------------------------------------------|
| Attribute   | Copolymer; Dispersible; Food Contact Acceptable; Good Colorability; Heat Stabilized |
| Forms       | Powder                                                                              |
| Additive    | Heat Stabilizer                                                                     |
| Application | Adhesives; Masterbatch                                                              |

| Typical Properties                       | Nominal Value | Units             | Test Method |
|------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                          |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)         | 20            | g/10 min          | ASTM D1238  |
| Density, (Internal Method)               | 0.940         | g/cm <sup>3</sup> | ASTM D1505  |
| Vinyl Acetate Content, (Internal Method) | 20.0          | wt %              |             |
| <b>Mechanical</b>                        |               |                   |             |
| Tensile Elongation at Break              | >100          | %                 | ASTM D638   |
| Tensile Modulus                          | 26            | MPa               | ASTM D638   |
| <b>Hardness</b>                          |               |                   |             |
| Durometer Hardness, (Shore A)            | 85            |                   | ASTM D2240  |
| <b>Thermal</b>                           |               |                   |             |
| Vicat Softening Temperature              | 48            | °C                | ASTM D1525  |
| Peak Melting Temperature                 | 79            | °C                | ASTM D3418  |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Processing (Melt) Temp | <200          | °C    |