

## Technical Data Sheet

### *Icorene* 3590-500 YEW 2248D



Linear Low Density Polyethylene

#### Product Description

*Icorene* 3590 is a linear low density polyethylene specifically developed for rotational moulding. This grade is a very fast processing material suitable for use in many different applications. It has a good balance of properties such as toughness, easy flow and stiffness.

|                          |  |
|--------------------------|--|
| <b>Processing Method</b> | Rotomolding  |
| <b>Attribute</b>         | Good Flow; Good Moldability; Good Processability; Good Stiffness; Good Toughness; UV Resistant |
| <b>Forms</b>             | Powder   |
| <b>Appearance</b>        | Natural Color; Unspecified Color   |
| <b>Additive</b>          | UV Stabilizer  |
| <b>Application</b>       | General Purpose  |

| Typical Properties  | Nominal Value | Units             | Test Method |
|---|---------------|-------------------|-------------|
| <b>Physical</b>   |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)  | 9.0           | g/10 min          | ASTM D1238  |
| Density   | 0.935         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>   |               |                   |             |
| Tensile Strength at Yield   | 17.0          | MPa               | ISO 527     |
| Tensile Strength at Break   | 16.0          | MPa               | ISO 527     |
| Environmental Stress Crack Resistance, (Condition B, F50, 100% Igepal, 50 °C) | >150          | hr                | ASTM D1693  |
| Flexural Modulus  | 550           | MPa               | ISO 178     |
| <b>Impact</b>   |               |                   |             |
| Drop Impact Resistance, (-20 °C, Internal Method)                             | 160           | J/cm              | ASTM D4226  |
| <b>Hardness</b>   |               |                   |             |
| Durometer Hardness, (Shore D)   | 53            |                   | ISO 868     |
| <b>Thermal</b>  |               |                   |             |
| Vicat Softening Temperature, (A (10N))  | 113           | °C                | ISO 306     |
| Melting Temperature   | 126           | °C                | DSC         |