

# ExxonMobil

## HDPE

### AS55-003

| Product information |  |            |       |                   |
|---------------------|--|------------|-------|-------------------|
| Manufacturer        | ExxonMobil Chemical Company  |            |       |                   |
| Color               | NC   |            |       |                   |
| Material Shape      | Pellets  |            |       |                   |
| Process             | Blow molding Thermoforming   |            |       |                   |
| Polymer             | Copolymer  |            |       |                   |
| FR                  | HB   |            |       |                   |
| Material Attribute  | Antistatic grade Heat stabilized grade   |            |       |                   |
| Features            | High stiffnessStress crack resistance  |            |       |                   |
| Application         | Highway drainage pipeFood packaging applicationPharmaceutical packagingHousehold chemicals containerIndustrial chemicals containerThin gauge sheetThermoforming applications |            |       |                   |
| Additives           | Antistatic Agent Heat Stabilizer   |            |       |                   |
| Flammability        | Condition  | Standard   | Value | Unit              |
| Flame               | Rating NC 0.6mm  | UL94       | HB    |                   |
| Flame               | Rating NC 2.8mm  | UL94       | HB    |                   |
| Mechanical behavior | Condition  | Standard   | Value | Unit              |
| Flexural            | Modulus  | ASTM D790  | 1300  | MPa               |
| Tensile             | Strength Yield   | ASTM D638  | 28    | MPa               |
| Tensile             | Impact Strength  | ASTM D1822 | 190   | kJ/m <sup>2</sup> |
| Physical property   | Condition  | Standard   | Value | Unit              |
| Density             |  | ASTM D4883 | 0.954 | g/cm <sup>3</sup> |
| Environmental       | Stress Crack Resistance 100%Igepal   | ASTM D1693 | 30    | hr                |
| Melt                | Index 190°C 2.16kg   | ASTM D1238 | 0.30  | g/10min           |
| Thermal             | Condition  | Standard   | Value | Unit              |
| Low                 | Temperature Brittleness  | ASTM D746  | -76.0 | °C                |
| Vicat               | Softening Temperature  | ASTM D1525 | 127   | °C                |
| UL                  | Condition  | Standard   | Value | Unit              |
| RTI                 | Elec NC 0.6mm  | UL 746B    | 50    | °C                |
| RTI                 | Elec NC 2.8mm  | UL 746B    | 50    | °C                |
| RTI                 | Imp NC 0.6mm   | UL 746B    | 50    | °C                |
| RTI                 | Imp NC 2.8mm   | UL 746B    | 50    | °C                |
| RTI                 | Str NC 0.6mm   | UL 746B    | 50    | °C                |
| RTI                 | Str NC 2.8mm   | UL 746B    | 50    | °C                |
| UL                  | FlameRating NC 0.6mm   | UL94       | HB    |                   |
| UL                  | FlameRating NC 2.8mm   | UL94       | HB    |                   |